

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.09	—	—	0.01	SU	Y	H	J-	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.21	—	—	0.01	SU	Y	H	J-	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.41	—	—	0.01	SU	Y	H	J-	10-1172	CALA-10-9162	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	2.09	—	—	0.725	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.725	mg/L	Y	U	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50	—	—	1.45	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	33.4	—	—	0.725	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	38.8	—	—	0.725	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.4	—	—	0.73	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.2	—	—	0.73	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	46.2	—	—	0.73	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	81.2	—	—	68	ug/L	Y	J	J	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	128	—	—	68	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	Y	1.45	0.124	0.164	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00659	0.0369	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00295	0.0042	0.024	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000782	0.0025	0.052	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00285	0.0015	0.024	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.105	—	—	0.017	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0617	—	—	0.017	mg/L	Y	—	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.122	—	—	0.016	mg/L	Y	—	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	10-4270	CALA-10-25198	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.53	—	—	1.7	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	3.23	—	—	1.7	ug/L	Y	J	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	ug/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	7.71	—	—	1	ug/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	4.63	—	—	1	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.11	—	—	1	ug/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.5	—	—	1	ug/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.2	—	—	1	ug/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.5	—	—	1	ug/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	7.84	—	—	0.05	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	5.34	—	—	0.05	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	4.87	—	—	0.05	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.5	—	—	0.05	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.12	1.45	4.9	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.62	1.79	6.75	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.167	2.7	5.2	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.63	1.8	6.1	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.101	1.3	4.2	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.04	—	—	0.067	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.74	—	—	0.067	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.84	—	—	0.067	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.15	—	—	0.066	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.7	—	—	0.33	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	32	—	—	0.33	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.31	—	—	2	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	7.51	—	—	2	ug/L	Y	J	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.29	—	—	2	ug/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.15	—	—	2.5	ug/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	14.9	—	—	2.5	ug/L	Y	—	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.832	0.392	2.32	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.29	1.69	6.77	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.1	1.6	4.8	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.728	1.3	4.1	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1	1.3	4.4	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.193	—	—	0.033	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.28	—	—	0.033	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.326	—	—	0.033	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.142	—	—	0.033	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.255	—	—	0.033	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.347	—	—	0.033	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	11.6	1.76	2.91	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.582	0.612	2.37	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.23	0.83	2.6	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.114	0.51	2.6	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.93	0.91	2.5	—	pCi/L	Y	U	U	09-2659	CALA-09-11129	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.2	1.01	2.36	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.68	0.949	2.92	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.1	1	2.2	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.5	1.3	3	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.91	1.1	2.1	—	pCi/L	Y	—	NQ	09-2659	CALA-09-11129	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	28	—	—	0.453	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	17.9	—	—	0.453	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	18.4	—	—	0.453	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.5	—	—	0.45	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.7	—	—	0.35	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.9	—	—	0.35	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	96.8	—	—	30	ug/L	Y	J	J	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	223	—	—	30	ug/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	44.5	—	—	30	ug/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	0.552	—	—	0.5	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	N	1.62	—	—	0.5	ug/L	Y	J	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	N	2	—	—	0.5	ug/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	N	2	—	—	0.5	ug/L	Y	U	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	N	2	—	—	0.5	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.05	—	—	0.11	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.11	—	—	0.11	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.52	—	—	0.11	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.79	—	—	0.11	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.85	—	—	0.085	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.06	—	—	0.085	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.19	—	—	2	ug/L	Y	J	J	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.31	—	—	2	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	ug/L	Y	U	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	ug/L	Y	U	U	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	2.01	—	—	2	ug/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.91	—	—	0.3	ug/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	4.7	—	—	0.165	ug/L	Y	—	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.7	—	—	0.165	ug/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.99	—	—	0.17	ug/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.35	—	—	0.1	ug/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.83	—	—	0.1	ug/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.29	2.03	6.2	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.74	3.55	12.7	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.41	2.4	7.7	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.67	2	7	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	8.29	11	36	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.608	—	—	0.5	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.7	—	—	0.5	ug/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.38	—	—	0.5	ug/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.518	—	—	0.5	ug/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.177	—	—	0.017	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.182	—	—	0.017	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.103	—	—	0.017	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.198	—	—	0.05	mg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.194	—	—	0.05	mg/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.183	—	—	0.05	mg/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.135	—	—	0.05	ug/L	Y	J	J	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.147	—	—	0.05	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.127	—	—	0.05	ug/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.141	—	—	0.05	ug/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.137	—	—	0.05	ug/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.161	—	—	0.05	ug/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	Y	0.217	0.0457	0.147	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00324	0.00562	0.0218	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0104	0.0051	0.026	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00491	0.01	0.022	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0017	0.023	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.792	0.0837	0.184	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.013	0.00795	0.0391	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0104	0.0051	0.039	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00491	0.006	0.036	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00335	0.0034	0.024	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.96	—	—	0.05	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.32	—	—	0.05	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.59	—	—	0.05	mg/L	Y	E	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.92	—	—	0.05	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.73	—	—	0.05	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.73	—	—	0.05	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	46.5	20.2	32.2	—	pCi/L	Y	UI	R	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.5	22.2	91.3	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.6	21	78	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13.7	15	50	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.9	17	59	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	57	—	—	0.053	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	57.9	—	—	0.053	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.6	—	—	0.053	mg/L	Y	—	J+	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.2	—	—	0.053	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.2	—	—	0.053	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.6	—	—	0.053	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.29	—	—	0.1	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	28.1	—	—	0.1	mg/L	Y	—	J+	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.3	—	—	0.1	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.371	0.96	3.45	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.37	1.44	4.7	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.42	1.8	6.3	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.73	1.4	3.8	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.8	1.2	3.7	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	113	—	—	3.63	uS/cm	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	79.4	—	—	3.63	uS/cm	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	97.3	—	—	1	uS/cm	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	269	—	—	1	uS/cm	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	227	—	—	1	uS/cm	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	uS/cm	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.4	—	—	1	ug/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	29.3	—	—	1	ug/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	33.3	—	—	1	ug/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	115	—	—	1	ug/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	87.9	—	—	1	ug/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.2	—	—	1	ug/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0549	0.136	0.485	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0733	0.0678	0.238	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.113	0.14	0.52	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00275	0.13	0.46	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.253	0.12	0.37	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.44	—	—	0.133	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.68	—	—	0.133	mg/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.8	—	—	0.133	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.49	—	—	0.1	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.3	—	—	0.1	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7	—	—	0.1	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	109	—	—	3.4	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	85.7	—	—	3.4	mg/L	Y	—	NQ	12-1524	CALA-12-22824	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	2.4	mg/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	2.4	mg/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	178	—	—	2.4	mg/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	03/02/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.298	—	—	0.033	mg/L	Y	—	NQ	2016-841	CALA-16-110552	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.101	—	—	0.033	mg/L	Y	—	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	10-1171	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.86	—	—	0.33	mg/L	Y	J	J	2016-2411	CALA-16-124846	GELC
LADP-3	316	03/02/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.36	—	—	0.33	mg/L	Y	—	NQ	2016-841	CALA-16-110552	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.879	—	—	0.33	mg/L	Y	J	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.968	—	—	0.33	mg/L	Y	J	J	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.34	—	—	0.33	mg/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.34	—	—	0.33	mg/L	Y	—	NQ	10-1171	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.114	—	—	0.02	mg/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0373	—	—	0.017	mg/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0892	—	—	0.017	mg/L	Y	—	U	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.036	—	—	0.015	mg/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.082	—	—	0.015	mg/L	Y	—	U	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.067	—	—	0.015	mg/L	Y	—	U	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	40.795	6.238	2.087	—	pCi/L	Y	—	J-	2016-2485	CALA-16-124846	ARSL
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.268	2.756	2.193	—	pCi/L	Y	—	J-	12-1531	CALA-12-22815	ARSL
LADP-3	316	03/07/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	77.6986	11.753	2.254	—	pCi/L	Y	—	NQ	11-1582	CALA-11-5094	ARSL
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	78.9866	11.9462	2.254	—	pCi/L	N	—	R	11-1582	CALA-11-5094	ARSL
LADP-3	316	08/20/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	69.1334	10.4328	1.7388	—	pCi/L	Y	—	NQ	10-4338	CALA-10-24991	ARSL
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	71.9348	10.8514	1.7388	—	pCi/L	N	—	R	10-4338	CALA-10-24991	ARSL
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	85.974	2.898	0.2898	—	pCi/L	Y	—	NQ	10-1190	CALA-10-9163	UMTL
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.946	—	—	0.067	ug/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.66	—	—	0.067	ug/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.476	—	—	0.067	ug/L	Y	—	NQ	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.842	—	—	0.067	ug/L	Y	—	NQ	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.748	—	—	0.05	ug/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.605	—	—	0.05	ug/L	Y	—	NQ	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	3.73	0.186	0.337	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.135	0.024	0.0849	—	pCi/L	Y	—	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.305	0.032	0.042	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.143	0.026	0.094	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.229	0.031	0.081	—	pCi/L	Y	—	NQ	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.269	0.0614	0.323	—	pCi/L	Y	U	U	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0157	0.0111	0.0548	—	pCi/L	Y	U	U	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0168	0.0073	0.027	—	pCi/L	Y	U	U	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.012	0.007	0.044	—	pCi/L	Y	U	U	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00717	0.0072	0.046	—	pCi/L	Y	U	U	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	3.29	0.174	0.337	—	pCi/L	Y	—	NQ	2016-2411	CALA-16-124846	GELC
LADP-3	316	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.134	0.0234	0.0431	—	pCi/L	Y	—	J	12-1524	CALA-12-22815	GELC
LADP-3	316	03/07/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.263	0.029	0.028	—	pCi/L	Y	—	NQ	11-1543	CALA-11-5094	GELC
LADP-3	316	08/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.223	0.031	0.057	—	pCi/L	Y	—	NQ	10-4270	CALA-10-24991	GELC
LADP-3	316	01/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.197	0.028	0.053	—	pCi/L	Y	—	NQ	10-1172	CALA-10-9163	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.15	—	—	1	ug/L	Y	J	J	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.81	—	—	1	ug/L	Y	J	J	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.97	—	—	1	ug/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.69	—	—	1	ug/L	Y	J	J	11-1543	CALA-11-5095	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.56	—	—	1	ug/L	Y	J	J	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.93	—	—	1	ug/L	Y	J	J	10-1172	CALA-10-9162	GELC
LADP-3	316	09/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	10.2	—	—	3.3	ug/L	Y	—	NQ	2016-2411	CALA-16-124862	GELC
LADP-3	316	03/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	18.5	—	—	3.3	ug/L	Y	—	NQ	2016-841	CALA-16-110556	GELC
LADP-3	316	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.59	—	—	3.3	ug/L	Y	J	J	12-1524	CALA-12-22824	GELC
LADP-3	316	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.96	—	—	3.3	ug/L	Y	J	J	11-1543	CALA-11-5095	GELC
LADP-3	316	08/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14	—	—	3.3	ug/L	Y	—	NQ	10-4270	CALA-10-25198	GELC
LADP-3	316	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	10-1172	CALA-10-9162	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.36	—	—	0.01	SU	Y	H	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.24	—	—	0.01	SU	Y	H	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.84	—	—	0.01	SU	Y	H	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.34	—	—	0.01	SU	Y	H	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.07	—	—	0.01	SU	Y	H	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.2	—	—	1.45	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	45.4	—	—	0.725	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	N	1	—	—	0.725	mg/L	Y	U	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	40.4	—	—	0.725	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	43.5	—	—	0.725	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	5.19E-09	0.0194	0.0852	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0023	0.00689	0.0369	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0131	0.0146	0.042	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00988	0.00699	0.0207	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00584	0.00826	0.0403	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	169	—	—	1	ug/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	11.2	—	—	1	ug/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	8.75	—	—	1	ug/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.68	—	—	1	ug/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.31	—	—	1	ug/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	38.3	—	—	15	ug/L	Y	J	J	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.5	—	—	0.05	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	6.68	—	—	0.05	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	6.53	—	—	0.05	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.59	—	—	0.05	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.55	—	—	0.05	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.314	0.827	3.13	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.194	1.78	6.36	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.354	1.3	4.44	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.83	1.62	5.05	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.53	1.61	6.25	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.26	—	—	0.067	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.39	—	—	0.067	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.21	—	—	0.067	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.22	—	—	0.067	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.18	—	—	0.067	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.13	—	—	1	ug/L	Y	J	J	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	12-1533	CALA-12-22825	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.549	0.676	2.96	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.6	2.2	7.85	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.09	1.36	5.45	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.61	1.69	6.86	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.24	1.72	6.94	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0713	—	—	0.033	mg/L	Y	J	J	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.121	—	—	0.033	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0683	—	—	0.033	mg/L	Y	J	J	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.125	—	—	0.033	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.12	—	—	0.033	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	11.9	0.883	1.89	—	pCi/L	Y	—	NQ	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.49	1.15	2.86	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	20.2	2.02	2.97	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.38	0.71	1.78	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	6.62	1.4	1.94	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.75	1.19	2.55	—	pCi/L	Y	—	NQ	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.24	0.479	1.16	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	17.2	0.686	1.38	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.95	1.24	2.58	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.51	0.967	2.18	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.8	—	—	0.453	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.9	—	—	0.453	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	24	—	—	0.453	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	24.1	—	—	0.453	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.8	—	—	0.45	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	7.07	—	—	0.11	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.76	—	—	0.11	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.86	—	—	0.11	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.86	—	—	0.11	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.81	—	—	0.11	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	ug/L	Y	—	J	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.67	—	—	0.165	ug/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	ug/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	ug/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.65	—	—	0.17	ug/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.28	1.81	5.58	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.338	3.9	13.5	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.608	2.58	9.17	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.7	2.91	10.4	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.998	3.5	12.1	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.529	—	—	0.017	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.534	—	—	0.017	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.427	—	—	0.017	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.425	—	—	0.017	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.434	—	—	0.017	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.307	—	—	0.05	ug/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.31	—	—	0.05	ug/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.254	—	—	0.05	ug/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.257	—	—	0.05	ug/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.241	—	—	0.05	ug/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00411	0.0207	0.0794	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00431	0.00681	0.0432	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00721	0.00636	0.0329	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0162	0.00786	0.025	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00325	0.00562	0.0327	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.000304	0.0204	0.1	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0258	0.011	0.0385	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00961	0.00961	0.0404	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0222	0.0124	0.0377	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00325	0.00562	0.0384	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.69	—	—	0.05	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8	—	—	0.05	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.17	—	—	0.05	mg/L	Y	E	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.42	—	—	0.05	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.4	—	—	0.05	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.6	11	36.9	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.73	27.9	108	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.8	19.9	44.6	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.7	20.5	62.2	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.89	22	85.8	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75.2	—	—	0.053	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.7	—	—	0.053	mg/L	Y	—	J-	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.3	—	—	0.053	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.5	—	—	0.1	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.84	—	—	0.1	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.65	—	—	0.1	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.29	—	—	0.1	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.27	—	—	0.1	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.322	0.687	2.66	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.584	1.96	6.53	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.529	1.2	4.76	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.791	1.36	5.57	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.5	1.43	4.94	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	104	—	—	3.63	uS/cm	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	1	uS/cm	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	86.9	—	—	3.63	uS/cm	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	97.5	—	—	1	uS/cm	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	99.7	—	—	1	uS/cm	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	183	—	—	1	ug/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	84.9	—	—	1	ug/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	37.1	—	—	1	ug/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	65	—	—	1	ug/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	39.5	—	—	1	ug/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0776	0.198	0.673	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.111	0.132	0.474	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.241	0.148	0.49	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0422	0.131	0.477	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0657	0.115	0.387	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.64	—	—	0.133	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.39	—	—	0.133	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.05	—	—	0.133	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.15	—	—	0.133	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	98.6	—	—	3.4	mg/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	70	—	—	3.4	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	94.3	—	—	3.4	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	84.3	—	—	3.4	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.749	0.659	2.265	—	pCi/L	Y	U	U	2016-2324	CALA-16-124847	ARSL
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.583	0.7	2.324	—	pCi/L	Y	U	U	2015-2347	CALA-15-103977	ARSL
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.073	0.678	2.31	—	pCi/L	Y	U	U	2014-4466	CALA-14-86010	ARSL
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.159	0.567	1.754	—	pCi/L	Y	U	U	2013-1707	CALA-13-39185	ARSL
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.852	0.646	2.094	—	pCi/L	Y	U	U	12-1537	CALA-12-22816	ARSL
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.285	—	—	0.067	ug/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.458	—	—	0.067	ug/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.343	—	—	0.067	ug/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.17	—	—	0.067	ug/L	Y	J	J	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.164	—	—	0.067	ug/L	Y	J	J	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.65	0.0613	0.201	—	pCi/L	Y	—	NQ	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.322	0.0308	0.12	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.07	0.0496	0.0488	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.12	0.0551	0.0579	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.0336	0.0782	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.147	0.0328	0.193	—	pCi/L	Y	U	U	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0458	0.0136	0.0848	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0584	0.0139	0.0358	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0594	0.0162	0.0355	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.025	0.0147	0.0331	—	pCi/L	Y	U	U	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.748	0.065	0.201	—	pCi/L	Y	—	NQ	2016-2199	CALA-16-124847	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.279	0.0288	0.112	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.14	0.0509	0.0283	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.21	0.0572	0.0503	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0298	0.039	—	pCi/L	Y	—	NQ	12-1533	CALA-12-22816	GELC
LAOI(a)-1.1	295.2	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.1	—	—	1	ug/L	Y	—	NQ	2016-2199	CALA-16-124863	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	ug/L	Y	U	U	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	ug/L	Y	U	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	ug/L	Y	U	U	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	ug/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.98	—	—	0.01	SU	Y	H	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.86	—	—	0.01	SU	Y	H	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.99	—	—	0.01	SU	Y	H	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.7	—	—	0.01	SU	Y	H	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.78	—	—	0.01	SU	Y	H	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.81	—	—	0.01	SU	Y	H	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.3	—	—	1.45	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.3	—	—	1.45	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.1	—	—	0.725	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.7	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72	—	—	0.725	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Aluminum	Al	Y	73.4	—	—	68	ug/L	Y	J	J	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	2015-2357	CALA-15-104000	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00445	0.00629	0.0365	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00578	0.00639	0.0316	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00384	0.0107	0.0366	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00877	0.00969	0.0375	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00289	0.005	0.0242	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00189	0.00422	0.0341	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	37.2	—	—	1	ug/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	37.8	—	—	1	ug/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	39	—	—	1	ug/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.4	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	45	—	—	1	ug/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.2	—	—	1	ug/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.973	—	—	0.067	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.96	—	—	0.067	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.695	—	—	0.067	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.463	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.527	—	—	0.067	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.128	—	—	0.067	mg/L	Y	J	J	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.6	—	—	0.05	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.7	—	—	0.05	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.4	—	—	0.05	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.5	—	—	0.05	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.312	2.39	3.34	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.495	0.861	2.94	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0243	1.24	4.58	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.469	1.48	5.11	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.979	1.37	5.26	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.68	5.84	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28.8	—	—	0.335	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28.5	—	—	0.335	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31.8	—	—	0.335	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31.1	—	—	0.335	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28.6	—	—	0.335	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.5	—	—	0.67	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.34	—	—	2	ug/L	Y	J	J	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.34	—	—	2	ug/L	Y	J	J	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.8	0.63	2.72	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.381	0.811	2.95	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.74	1.22	5.24	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.915	1.34	5.1	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.36	1.42	5.72	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.69	1.93	6.62	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0372	—	—	0.033	mg/L	Y	J	J	2016-2179	CALA-16-124864	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0404	—	—	0.033	mg/L	Y	J	J	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0548	—	—	0.033	mg/L	Y	J	J	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0475	—	—	0.033	mg/L	Y	J	J	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0935	—	—	0.033	mg/L	Y	J	J	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.11	—	—	0.033	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.829	0.537	1.94	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.136	0.57	1.92	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.153	0.766	2.99	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.772	0.373	2.93	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.488	0.799	2.8	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.789	0.675	2.34	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	13.1	1.29	2.39	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.22	1.1	2.26	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.18	0.932	2.27	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.36	0.656	1.88	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.15	1.06	2.7	—	pCi/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.89	0.972	2.31	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	89.9	—	—	0.453	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	89.6	—	—	0.453	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.3	—	—	0.453	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.7	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.5	—	—	0.453	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.9	—	—	0.453	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.86	—	—	0.11	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.88	—	—	0.11	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.77	—	—	0.11	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.78	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.76	—	—	0.11	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.6	—	—	0.11	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.511	—	—	0.165	ug/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.483	—	—	0.165	ug/L	Y	J	J	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.712	—	—	0.165	ug/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.771	—	—	0.165	ug/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.537	—	—	0.165	ug/L	Y	—	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.443	—	—	0.165	ug/L	Y	J	J	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.3	1.85	6.73	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.3	1.65	5.76	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.78	2.71	9.34	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.58	2.98	10.8	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.69	2.62	9.63	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.62	3.21	10.1	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.09	—	—	0.085	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.09	—	—	0.085	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.99	—	—	0.085	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.99	—	—	0.085	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.53	—	—	0.17	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.48	—	—	0.085	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	4.78	—	—	0.5	ug/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	4.46	—	—	0.5	ug/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	4.75	—	—	0.5	ug/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	5.71	—	—	0.5	ug/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.96	—	—	0.5	ug/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	7.63	—	—	0.5	ug/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0029	0.00616	0.0296	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0185	0.00914	0.0428	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00687	0.00606	0.0459	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00227	0.006	0.0311	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00286	0.00495	0.0256	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00769	0.00544	0.0216	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00858	0.00678	0.0374	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00623	0.00911	0.054	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00915	0.00561	0.041	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.13E-09	0.00641	0.0381	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00286	0.00756	0.0383	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00385	0.00608	0.0291	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.55	—	—	0.05	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	7.47	—	—	0.05	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.88	—	—	0.05	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.62	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.73	—	—	0.05	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.15	—	—	0.05	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	28.5	11.4	42.2	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.1	12.8	41.9	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.2	18.4	52.9	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.1	16.7	66.3	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.4	19.4	72.4	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.4	20	72.8	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.9	—	—	0.053	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.4	—	—	0.053	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.3	—	—	0.053	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.7	—	—	0.1	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.9	—	—	0.1	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.3	—	—	0.1	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.07	0.87	3.62	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.517	0.984	3.42	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.4	1.28	5.55	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.15	1.17	4.83	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.42	1.6	5.36	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.74	1.57	6.61	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	280	—	—	3.63	uS/cm	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	280	—	—	3.63	uS/cm	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	261	—	—	1	uS/cm	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	3.63	uS/cm	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	286	—	—	1	uS/cm	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	277	—	—	1	uS/cm	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	121	—	—	1	ug/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	123	—	—	1	ug/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	117	—	—	1	ug/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	118	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	119	—	—	1	ug/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	121	—	—	1	ug/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0913	0.0853	0.295	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.101	0.125	0.481	—	pCi/L	Y	U	U	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0715	0.124	0.477	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0255	0.135	0.479	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.225	0.145	0.484	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.158	0.143	0.484	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.2	—	—	0.133	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.7	—	—	0.133	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.4	—	—	0.133	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.41	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.01	—	—	0.133	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.67	—	—	0.133	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	233	—	—	3.4	mg/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	213	—	—	3.4	mg/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	216	—	—	3.4	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	270	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	230	—	—	3.4	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	219	—	—	3.4	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.15	—	—	0.033	mg/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0602	—	—	0.033	mg/L	Y	J	J	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.066	—	—	0.033	mg/L	Y	J	J	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.129	—	—	0.033	mg/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0685	—	—	0.033	mg/L	Y	J	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.615	—	—	0.33	mg/L	Y	J	J	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.655	—	—	0.33	mg/L	Y	J	J	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.643	—	—	0.33	mg/L	Y	J	J	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.829	—	—	0.33	mg/L	Y	J	J	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.12	—	—	0.33	mg/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.704	—	—	0.33	mg/L	Y	J	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.029	—	—	0.02	mg/L	Y	J	J	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0367	—	—	0.02	mg/L	Y	J	J	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.1	—	—	0.017	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	1740	106	197	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1580	100	192	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2060	114	171	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2090	109	151	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1820	81.5	193	—	pCi/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1870	87.7	121	—	pCi/L	Y	—	NQ	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	ug/L	Y	—	NQ	2016-2179	CALA-16-124864	GELC
LAOI-3.2	153.3	08/24/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	ug/L	Y	—	NQ	2016-2179	CALA-16-124829	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	ug/L	Y	—	NQ	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.29	—	—	0.067	ug/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.41	—	—	0.067	ug/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.26	—	—	0.067	ug/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.692	0.0406	0.0858	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124828	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.637	0.0398	0.0897	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.453	0.0363	0.118	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.495	0.032	0.0432	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.454	0.0321	0.0463	—	pCi/L	Y	—	J	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.408	0.0385	0.0704	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0713	0.0164	0.0822	—	pCi/L	Y	U	U	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0984	0.0176	0.0859	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.045	0.0143	0.0833	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0246	0.0092	0.0317	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0237	0.00874	0.0283	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00407	0.0108	0.0523	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.531	0.0353	0.0857	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124828	GELC
LAOI-3.2	153.3	08/24/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.579	0.0377	0.0896	—	pCi/L	Y	—	NQ	2016-2179	CALA-16-124848	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.479	0.037	0.11	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.416	0.0297	0.0251	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.369	0.0284	0.0402	—	pCi/L	Y	—	J	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.359	0.0353	0.0548	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.32	—	—	0.01	SU	Y	H	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.11	—	—	0.01	SU	Y	H	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.76	—	—	0.01	SU	Y	H	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.32	—	—	0.01	SU	Y	H	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.96	—	—	0.01	SU	Y	H	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77.3	—	—	1.45	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.9	—	—	0.725	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.4	—	—	0.725	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.6	—	—	0.725	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.1	—	—	0.725	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0106	0.0106	0.0581	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.016	0.00883	0.0366	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0052	0.0104	0.0333	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0043	0.00609	0.018	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00817	0.00578	0.0282	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.9	—	—	1	ug/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	19.1	—	—	1	ug/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.9	—	—	1	ug/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.7	—	—	1	ug/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.6	—	—	1	ug/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)anthracene	56-55-3	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(a)anthracene	56-55-3	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)anthracene	56-55-3	Y	0.0899	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)anthracene	56-55-3	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(a)anthracene	56-55-3	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)anthracene	56-55-3	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)anthracene	56-55-3	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)anthracene	56-55-3	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)pyrene	50-32-8	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(a)pyrene	50-32-8	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)pyrene	50-32-8	Y	0.0787	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(a)pyrene	50-32-8	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(a)pyrene	50-32-8	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)pyrene	50-32-8	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)pyrene	50-32-8	N	1	—	—	0.44	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)pyrene	50-32-8	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(b)fluoranthene	205-99-2	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(b)fluoranthene	205-99-2	Y	0.112	—	—	0.0337	ug/L	Y	—	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(b)fluoranthene	205-99-2	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(g,h,i)perylene	191-24-2	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(g,h,i)perylene	191-24-2	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(g,h,i)perylene	191-24-2	Y	0.0674	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(g,h,i)perylene	191-24-2	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(g,h,i)perylene	191-24-2	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(g,h,i)perylene	191-24-2	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(k)fluoranthene	207-08-9	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(k)fluoranthene	207-08-9	Y	0.0899	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(k)fluoranthene	207-08-9	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.0255	—	—	0.0082	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.729	—	—	0.067	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.664	—	—	0.067	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.64	—	—	0.067	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.552	—	—	0.067	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.558	—	—	0.067	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.7	—	—	0.05	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.3	—	—	0.05	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.7	—	—	0.05	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.6	—	—	0.05	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.3	—	—	0.05	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.702	1.34	5.39	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.4	1.48	5.57	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.91	1.8	6.07	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.66	1.81	5.76	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.177	1.86	7.04	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	21.5	—	—	0.335	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.4	—	—	0.335	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.8	—	—	0.335	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.8	—	—	0.335	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	21.7	—	—	0.335	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Chrysene	218-01-9	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Chrysene	218-01-9	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Chrysene	218-01-9	Y	0.0674	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Chrysene	218-01-9	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Chrysene	218-01-9	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Chrysene	218-01-9	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Chrysene	218-01-9	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Chrysene	218-01-9	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.668	1.34	5.75	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.696	1.38	4.95	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.279	1.55	5.85	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.63	1.63	5.64	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1	1.76	7.44	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Dibenz(a,h)anthracene	53-70-3	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dibenz(a,h)anthracene	53-70-3	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Dibenz(a,h)anthracene	53-70-3	Y	0.0787	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Dibenz(a,h)anthracene	53-70-3	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dibenz(a,h)anthracene	53-70-3	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Dibenz(a,h)anthracene	53-70-3	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0415	—	—	0.033	mg/L	Y	J	J	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0476	—	—	0.033	mg/L	Y	J	J	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0463	—	—	0.033	mg/L	Y	J	J	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0896	—	—	0.033	mg/L	Y	J	J	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.111	—	—	0.033	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	16.1	0.865	1.52	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.196	0.675	2.88	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.12	0.941	2.88	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.15	0.42	1.19	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.92	0.983	2.07	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.96	1.3	2.67	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.2	0.989	1.9	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15	0.645	1.49	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.93	0.596	1.52	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	11.1	1.37	2.99	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.7	—	—	0.453	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.9	—	—	0.453	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.2	—	—	0.453	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86	—	—	0.453	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.5	—	—	0.453	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	RE	REG	SVOC	SW-846:8270DGCMS_SIM	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.109	—	—	0.0326	ug/L	N	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.5	—	—	0.15	ug/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Indeno(1,2,3-cd)pyrene	193-39-5	Y	0.0674	—	—	0.0337	ug/L	Y	J	J-	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.103	—	—	0.0309	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.5	—	—	0.15	ug/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.051	—	—	0.0163	ug/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1	—	—	0.3	ug/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.1	—	—	0.22	ug/L	Y	U	U	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.12	—	—	0.11	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.17	—	—	0.11	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.08	—	—	0.11	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.38	—	—	0.11	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.42	—	—	0.11	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.75	—	—	0.3	ug/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.84	—	—	0.165	ug/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.15	—	—	0.165	ug/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.31	—	—	0.165	ug/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	ug/L	Y	—	NQ	12-1555	CALA-12-22827	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.49	2.78	9.06	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.193	2.93	10.1	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.67	3.57	12	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.09	3.99	13.4	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.522	3.83	13.8	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.56	—	—	0.085	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.78	—	—	0.085	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.75	—	—	0.085	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.63	—	—	0.085	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.64	—	—	0.085	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	2.55	—	—	0.25	ug/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	2.27	—	—	0.25	ug/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	2.37	—	—	0.2	ug/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	2.33	—	—	0.25	ug/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	2.31	—	—	0.25	ug/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00602	0.0432	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00239	0.00632	0.0479	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0178	0.00841	0.0407	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00397	0.00486	0.0178	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00224	0.00671	0.0226	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00982	0.00777	0.0542	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00239	0.00985	0.0428	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00594	0.0084	0.05	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00397	0.00397	0.0266	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00671	0.005	0.0264	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	9.99	—	—	0.05	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	9.94	—	—	0.05	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.3	—	—	0.05	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.9	21.8	90.9	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	47.1	15.9	52.5	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	43.6	20.4	54.8	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-27.8	20.8	69.8	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.94	24.3	101	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.1	—	—	0.053	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.3	—	—	0.053	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.2	—	—	0.053	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.9	—	—	0.053	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.7	—	—	0.1	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.732	1.55	6.43	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.28	1.71	4.75	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.03	1.72	6.81	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.526	2.19	7.27	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.678	1.69	6.5	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	247	—	—	3.63	uS/cm	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	1	uS/cm	Y	—	NQ	2015-2353	CALA-15-104001	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	255	—	—	3.63	uS/cm	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	267	—	—	1	uS/cm	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	268	—	—	1	uS/cm	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	153	—	—	1	ug/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	151	—	—	1	ug/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	152	—	—	1	ug/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	158	—	—	1	ug/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	152	—	—	1	ug/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.16	0.0685	0.223	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.233	0.125	0.48	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.175	0.131	0.486	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0353	0.139	0.477	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.124	0.137	0.478	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.8	—	—	0.133	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11	—	—	0.133	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.7	—	—	0.133	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.85	—	—	0.133	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	220	—	—	3.4	mg/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	3.4	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	3.4	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	190	—	—	3.4	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	3.4	mg/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.582	—	—	0.33	mg/L	Y	J	J	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.669	—	—	0.33	mg/L	Y	J	J	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.926	—	—	0.33	mg/L	Y	J	J	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.11	—	—	0.33	mg/L	Y	—	NQ	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.05	—	—	0.33	mg/L	Y	—	NQ	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	957	77.6	150	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1150	90.9	171	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1280	90.1	154	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1280	74.6	191	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1410	74	170	—	pCi/L	Y	—	NQ	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.8	—	—	0.067	ug/L	Y	—	NQ	2016-2284	CALA-16-124865	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.57	—	—	0.067	ug/L	Y	—	NQ	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.49	—	—	0.067	ug/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.1	—	—	0.067	ug/L	Y	—	NQ	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.067	ug/L	Y	—	NQ	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.663	0.0389	0.0811	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.529	0.043	0.142	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.734	0.0417	0.0498	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.619	0.0399	0.0537	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.655	0.0474	0.0851	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.027	0.00935	0.0778	—	pCi/L	Y	U	U	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0375	0.0138	0.1	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0482	0.0136	0.0365	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0214	0.011	0.0329	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0194	0.014	0.036	—	pCi/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.633	0.0373	0.0811	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124849	GELC
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.526	0.0426	0.132	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.649	0.0387	0.0289	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.497	0.0361	0.0466	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.601	0.0441	0.0424	—	pCi/L	Y	—	J	12-1555	CALA-12-22818	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.53	—	—	0.01	SU	Y	H	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.55	—	—	0.01	SU	Y	H	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	J-	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.2	—	—	1.45	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.8	—	—	0.725	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.7	—	—	0.725	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55	—	—	0.725	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.7	—	—	0.73	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00487	0.00688	0.04	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00917	0.0112	0.0581	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0105	0.00984	0.022	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00379	0.00599	0.0261	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00314	0.0025	0.029	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.6	—	—	1	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.7	—	—	1	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.3	—	—	1	ug/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.6	—	—	1	ug/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.2	—	—	1	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.067	mg/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0929	—	—	0.067	mg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.067	mg/L	Y	J	J	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.135	—	—	0.066	mg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.7	—	—	0.05	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.9	—	—	0.05	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.25	1.35	5.58	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.5	1.86	6.92	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.28	1.54	5.2	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.18	1.52	4.84	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.36	1.6	3.8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	19.5	—	—	0.335	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	20.1	—	—	0.335	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.1	—	—	0.335	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.56	—	—	0.067	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28	—	—	0.13	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.02	—	—	3	ug/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.24	—	—	2	ug/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.19	—	—	2	ug/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.77	—	—	2	ug/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.5	0.961	4.31	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.37	1.4	5.71	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.44	1.54	5.85	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.523	1.41	5.9	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.93	1.9	7.8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.119	—	—	0.033	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.135	—	—	0.033	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.195	—	—	0.033	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.211	—	—	0.033	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1	0.819	2.83	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.91	1.06	2.86	—	pCi/L	Y	—	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.519	0.655	2.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.33	0.743	2.24	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.158	0.52	2.4	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.38	0.837	2.15	—	pCi/L	Y	—	J	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.3	0.412	1.12	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.16	1.02	2.9	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.16	0.919	2.9	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.65	1.3	2.9	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65	—	—	0.453	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.7	—	—	0.453	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.453	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.3	—	—	0.453	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76.3	—	—	0.45	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	60.6	—	—	30	ug/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	41.8	—	—	30	ug/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.26	—	—	0.11	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.82	—	—	0.11	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.46	—	—	0.11	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.78	—	—	0.11	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.61	—	—	0.11	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	7.37	—	—	2	ug/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	6.06	—	—	2	ug/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	ug/L	Y	U	U	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.76	—	—	2	ug/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.31	—	—	2	ug/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.3	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.868	—	—	0.165	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.06	—	—	0.165	ug/L	Y	—	U	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.969	—	—	0.165	ug/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03	—	—	0.17	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.35	2.01	7.22	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.41	4.44	10.3	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0427	3.28	10.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.64	2.81	9.83	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.897	3.8	13	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.15	—	—	0.5	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	21.2	—	—	0.5	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.38	—	—	0.5	ug/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.94	—	—	0.5	ug/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.75	—	—	0.5	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.246	—	—	0.017	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.282	—	—	0.017	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.532	—	—	0.017	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.292	—	—	0.017	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.311	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.757	—	—	0.05	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.762	—	—	0.05	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.856	—	—	0.05	ug/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.814	—	—	0.05	ug/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.756	—	—	0.05	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.85E-09	0.00876	0.0487	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0172	0.00812	0.0394	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00517	0.00895	0.0462	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00771	0.0208	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.002	0.025	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.85E-09	0.00876	0.0611	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0316	0.0111	0.0483	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0103	0.0693	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00206	0.00545	0.0244	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	4.85E-10	0.005	0.038	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5	—	—	0.05	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.11	—	—	0.05	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.42	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.99	—	—	0.05	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.68	—	—	0.05	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15	15.1	57.4	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.1	17.2	65.2	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.65	17.9	73.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.4	18.8	71	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.7	23	89	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	56.7	—	—	0.053	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.2	—	—	0.053	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.6	—	—	0.053	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	J+	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.33	0.902	4.23	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.23	1.37	5.06	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.584	1.51	5.89	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.12	1.75	6.04	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.3	2	8	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	3.63	uS/cm	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	3.63	uS/cm	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	205	—	—	1	uS/cm	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	215	—	—	1	uS/cm	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	uS/cm	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	85.5	—	—	1	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	84.1	—	—	1	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.3	—	—	1	ug/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	90.5	—	—	1	ug/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	100	—	—	1	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.151	0.103	0.36	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.199	0.128	0.48	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0841	0.134	0.466	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.086	0.135	0.49	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.226	0.16	0.53	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.59	—	—	0.133	mg/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.4	—	—	0.133	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11	—	—	0.133	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.76	—	—	0.133	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	168	—	—	2.4	mg/L	Y	—	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.9	—	—	0.33	mg/L	Y	J	J	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1	—	—	0.33	mg/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.06	—	—	0.33	mg/L	Y	—	NQ	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.17	—	—	0.33	mg/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.849	—	—	0.33	mg/L	Y	J	J	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0361	—	—	0.02	mg/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0235	—	—	0.017	mg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0226	—	—	0.017	mg/L	Y	J	J	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0394	—	—	0.017	mg/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.036	—	—	0.015	mg/L	Y	J	U	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	551	66.3	154	—	pCi/L	Y	—	NQ	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	670	60.3	162	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	605	63.6	185	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	699	56.6	105	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	721	100	140	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.498	—	—	0.067	ug/L	Y	—	NQ	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.63	—	—	0.067	ug/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.767	—	—	0.067	ug/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.68	—	—	0.067	ug/L	Y	—	NQ	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.622	—	—	0.067	ug/L	Y	—	NQ	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.205	0.021	0.0688	—	pCi/L	Y	—	NQ	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.23	0.0247	0.0554	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.249	0.0272	0.0582	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.267	0.0339	0.0942	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.294	0.034	0.051	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0114	0.00758	0.0659	—	pCi/L	Y	U	U	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0158	0.00834	0.0406	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0133	0.00938	0.0357	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0086	0.0136	0.0399	—	pCi/L	Y	U	U	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0207	0.008	0.033	—	pCi/L	Y	U	U	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.17	0.0185	0.0687	—	pCi/L	Y	—	NQ	2016-2310	CALA-16-124850	GELC
LAOI-7	240	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.023	0.0321	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.225	0.0252	0.0505	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.188	0.0265	0.0469	—	pCi/L	Y	—	NQ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.211	0.027	0.035	—	pCi/L	Y	—	NQ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.29	—	—	1	ug/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.51	—	—	1	ug/L	Y	J	J	2014-4539	CALA-14-86024	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.65	—	—	1	ug/L	Y	J	J	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.65	—	—	1	ug/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.23	—	—	1	ug/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	8.97	—	—	3.3	ug/L	Y	J	J	2016-2310	CALA-16-124866	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.36	—	—	3.3	ug/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.47	—	—	3.3	ug/L	Y	J	J	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.97	—	—	3.3	ug/L	Y	J	J	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.98	—	—	3.3	ug/L	Y	J	J	11-1604	CALA-11-5162	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.17	—	—	0.01	SU	Y	H	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	98.4	—	—	1.45	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	99.6	—	—	0.725	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.2	—	—	0.725	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94.9	—	—	0.725	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94	—	—	0.73	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0713	—	—	0.017	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0935	—	—	0.017	mg/L	Y	—	U	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.051	—	—	0.017	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0764	—	—	0.017	mg/L	Y	—	U	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.79	—	—	1.7	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.12	—	—	1.7	ug/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.75	—	—	1.7	ug/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	6.9	—	—	1.5	ug/L	Y	—	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	ug/L	Y	U	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	187	—	—	1	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	203	—	—	1	ug/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	193	—	—	1	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	199	—	—	1	ug/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	190	—	—	1	ug/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	24.7	—	—	15	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.3	—	—	15	ug/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.3	—	—	15	ug/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.3	—	—	15	ug/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	24.8	—	—	10	ug/L	Y	J	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.133	—	—	0.067	mg/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.103	—	—	0.067	mg/L	Y	J	J	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.121	—	—	0.067	mg/L	Y	J	J	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.066	mg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	Y	0.276	—	—	0.11	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	ug/L	Y	U	U	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	ug/L	Y	U	U	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	ug/L	Y	U	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	ug/L	Y	U	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	29.7	—	—	0.05	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	31.8	—	—	0.05	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	31.7	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.8	—	—	0.05	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	30	—	—	0.03	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.19	—	—	0.067	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.57	—	—	0.067	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.38	—	—	0.067	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.61	—	—	0.067	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.22	—	—	0.066	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.11	—	—	2	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.51	—	—	2	ug/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.22	—	—	2	ug/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.44	—	—	2.5	ug/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.5	—	—	1.5	ug/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.992	—	—	0.033	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.08	—	—	0.033	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.13	—	—	0.033	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.01	—	—	0.033	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.03	—	—	0.033	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86	—	—	0.453	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	92.4	—	—	0.453	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	91.5	—	—	0.45	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86	—	—	0.35	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.9	—	—	0.35	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.86	—	—	0.11	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.17	—	—	0.11	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.01	—	—	0.11	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.85	—	—	0.085	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.085	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.165	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.21	—	—	0.165	ug/L	Y	—	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.23	—	—	0.17	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.1	ug/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.3	—	—	0.1	ug/L	Y	—	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.67	—	—	0.085	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.6	—	—	0.085	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.63	—	—	0.085	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.52	—	—	0.17	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.87	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.39	—	—	0.1	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.26	—	—	0.1	ug/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.39	—	—	0.1	ug/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.4	—	—	0.1	ug/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.25	—	—	0.1	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.19	—	—	0.05	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.04	—	—	0.05	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.26	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.74	—	—	1.5	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	51.2	—	—	0.053	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.5	—	—	0.053	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	54.5	—	—	0.053	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.1	—	—	0.053	mg/L	Y	—	J+	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.1	—	—	0.1	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.045	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	247	—	—	3.63	uS/cm	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	3.63	uS/cm	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	256	—	—	1	uS/cm	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	uS/cm	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	uS/cm	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	289	—	—	1	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	298	—	—	1	ug/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	321	—	—	1	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	298	—	—	1	ug/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	309	—	—	1	ug/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.67	—	—	0.133	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.91	—	—	0.133	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.4	—	—	0.133	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.76	—	—	0.133	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.84	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	199	—	—	3.4	mg/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	174	—	—	3.4	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	190	—	—	3.4	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	2.4	mg/L	Y	—	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0416	—	—	0.02	mg/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.049	—	—	0.017	mg/L	Y	J	J	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0462	—	—	0.017	mg/L	Y	J	U	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.58	—	—	0.067	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.9	—	—	0.067	ug/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.61	—	—	0.067	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.63	—	—	0.05	ug/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.9	—	—	0.05	ug/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.69	—	—	1	ug/L	Y	—	NQ	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.42	—	—	1	ug/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.12	—	—	1	ug/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.16	—	—	1	ug/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	10.4	—	—	1	ug/L	Y	—	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.92	—	—	3.3	ug/L	Y	J	J	2016-2160	CALA-16-124867	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.16	—	—	3.3	ug/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3	—	—	2	ug/L	Y	J	J	08-1777	CAPU-08-14777	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2013-1654	CALA-13-39208	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95.4	—	—	1.45	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.8	—	—	0.725	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90.8	—	—	0.725	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.6	—	—	0.725	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.5	—	—	0.73	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.31	—	—	1.7	ug/L	Y	J	J	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5.61	—	—	1.5	ug/L	Y	—	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.1	—	—	1.5	ug/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	89.1	—	—	1	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	95.6	—	—	1	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	97.5	—	—	1	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	94.3	—	—	1	ug/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	91	—	—	1	ug/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	34.7	—	—	15	ug/L	Y	J	J	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	41.7	—	—	15	ug/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	39.1	—	—	15	ug/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35.8	—	—	15	ug/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.2	—	—	10	ug/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.128	—	—	0.067	mg/L	Y	J	J	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.133	—	—	0.067	mg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.124	—	—	0.067	mg/L	Y	J	J	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.139	—	—	0.066	mg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	25.6	—	—	0.05	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	26.4	—	—	0.05	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.7	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.6	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.9	—	—	0.03	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.14	—	—	0.067	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.71	—	—	0.067	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.76	—	—	0.067	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.16	—	—	0.067	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.95	—	—	0.066	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.84	—	—	2	ug/L	Y	J	J	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	13.8	—	—	2	ug/L	Y	—	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.84	—	—	2	ug/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.82	—	—	2.5	ug/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	10.4	—	—	1.5	ug/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.565	—	—	0.033	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.682	—	—	0.033	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.688	—	—	0.033	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.595	—	—	0.033	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.647	—	—	0.033	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.6	—	—	0.453	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.6	—	—	0.453	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.4	—	—	2.3	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	78.9	—	—	0.35	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.9	—	—	0.35	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.27	—	—	0.11	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.56	—	—	0.11	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.72	—	—	0.11	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.21	—	—	0.085	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.58	—	—	0.085	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.47	—	—	0.165	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.54	—	—	0.165	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.55	—	—	0.17	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.33	—	—	0.1	ug/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	2.4	—	—	0.1	ug/L	Y	—	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.09	—	—	0.5	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.37	—	—	0.5	ug/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.59	—	—	0.5	ug/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.28	—	—	0.5	ug/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1	—	—	0.5	ug/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.94	—	—	0.085	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.54	—	—	0.085	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2	—	—	0.085	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.9	—	—	0.085	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.98	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.31	—	—	0.1	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.24	—	—	0.1	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.23	—	—	0.1	ug/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.3	—	—	0.1	ug/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.25	—	—	0.1	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.4	—	—	0.05	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.55	—	—	0.05	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.66	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.26	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.47	—	—	0.05	mg/L	Y	E	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	47.9	—	—	0.053	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	50.4	—	—	0.053	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.8	—	—	0.053	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.9	—	—	0.053	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	50.2	—	—	0.053	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	20.8	—	—	0.1	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	21.1	—	—	0.1	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.7	—	—	0.1	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.3	—	—	0.1	mg/L	Y	*	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.4	—	—	0.045	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	3.63	uS/cm	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	244	—	—	3.63	uS/cm	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	254	—	—	1	uS/cm	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	uS/cm	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	263	—	—	1	uS/cm	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	190	—	—	1	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	191	—	—	1	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	206	—	—	1	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	190	—	—	1	ug/L	Y	*	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	199	—	—	1	ug/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17.3	—	—	0.133	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.1	—	—	0.133	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.2	—	—	0.133	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.3	—	—	0.133	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.8	—	—	0.1	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	3.4	mg/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	2.4	mg/L	Y	—	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.63	—	—	0.067	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.067	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.71	—	—	0.067	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.8	—	—	0.05	ug/L	Y	—	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.05	ug/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	08/24/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.31	—	—	1	ug/L	Y	—	NQ	2016-2178	CALA-16-124868	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.74	—	—	1	ug/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.2	—	—	1	ug/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.2	—	—	1	ug/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.1	—	—	1	ug/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.3	—	—	1.45	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.2	—	—	0.725	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68	—	—	0.725	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.2	—	—	0.725	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.1	—	—	0.725	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.2	—	—	0.725	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00643	0.00773	0.0352	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0124	0.00533	0.0318	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00204	0.00736	0.0328	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.027	0.00952	0.0349	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00434	0.013	0.0549	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0145	0.00685	0.0409	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0678	—	—	0.017	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0529	—	—	0.017	mg/L	Y	—	U	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0756	—	—	0.017	mg/L	Y	—	U	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4547	CALA-14-86025	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.46	—	—	1.7	ug/L	Y	J	J	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.73	—	—	1.7	ug/L	Y	J	J	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.88	—	—	1.7	ug/L	Y	J	J	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.96	—	—	1.7	ug/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.5	—	—	1	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.7	—	—	1	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.3	—	—	1	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.6	—	—	1	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.8	—	—	1	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.7	—	—	15	ug/L	Y	J	J	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.4	—	—	15	ug/L	Y	J	J	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	25.1	—	—	15	ug/L	Y	J	J	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.2	—	—	15	ug/L	Y	J	J	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.4	—	—	15	ug/L	Y	J	J	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.5	—	—	15	ug/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.8	—	—	0.05	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.22	1.42	4.39	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0872	1.62	6.05	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.08	1.76	5.74	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.39	1.4	3.45	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.22	1.4	4.45	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.92	1.19	4.3	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.067	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.87	—	—	0.067	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2	—	—	0.067	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.37	—	—	2	ug/L	Y	J	J	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.23	—	—	2	ug/L	Y	J	J	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.17	—	—	2	ug/L	Y	J	U	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.03	—	—	2	ug/L	Y	J	J	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.08	—	—	2	ug/L	Y	J	J	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.4	—	—	2	ug/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.719	0.807	3.43	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.48	1.64	5.48	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0679	1.89	7.33	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.349	1.23	4.79	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.1	1.36	5.12	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.18	1.47	4.27	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.303	—	—	0.033	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.359	—	—	0.033	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.344	—	—	0.033	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.367	—	—	0.033	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.359	—	—	0.033	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.25	0.345	0.751	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.337	0.719	2.87	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.4	0.49	2.99	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.461	0.336	1.28	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1	0.556	2.88	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.229	0.674	2.84	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.25	0.827	2.6	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.635	0.512	1.69	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.639	0.462	1.55	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.404	1.3	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.7	0.772	2.41	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0551	0.629	2.25	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.6	—	—	0.453	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.8	—	—	0.453	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.3	—	—	0.453	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.453	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.4	—	—	0.453	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.7	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.56	—	—	0.11	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.78	—	—	0.11	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.07	—	—	0.11	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.84	—	—	0.11	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.16	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.73	—	—	0.165	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.165	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.8	—	—	0.165	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.61	—	—	0.165	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.64	—	—	0.165	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.81	—	—	0.165	ug/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.412	1.55	5.18	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.17	3.32	11.4	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.7	3.79	12.2	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.57	2.6	9.71	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.977	2.77	9.79	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.65	2.45	8.77	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.268	—	—	0.017	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.272	—	—	0.017	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.216	—	—	0.017	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.277	—	—	0.017	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.265	—	—	0.017	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.321	—	—	0.017	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.296	—	—	0.05	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.278	—	—	0.05	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.281	—	—	0.05	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.277	—	—	0.05	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.294	—	—	0.05	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.298	—	—	0.05	ug/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00425	0.00521	0.0374	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.019	0.00967	0.0334	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00225	0.00503	0.0451	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0161	0.00856	0.038	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00738	0.0413	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00437	0.00535	0.0178	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00212	0.00475	0.0469	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00633	0.007	0.0307	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0135	0.011	0.0403	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.02E-09	0.00755	0.0492	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0331	0.0124	0.0507	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0306	0.00927	0.0414	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.19	—	—	0.05	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.26	—	—	0.05	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.28	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.8	14.8	23.8	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	50.2	18.2	54.4	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-37.4	21.7	83.5	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.7	17.3	40.6	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.8	23.2	47.5	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.3	15.3	60.1	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.3	—	—	0.053	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.3	—	—	0.053	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80	—	—	0.053	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.1	—	—	0.053	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.1	—	—	0.053	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	J-	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.87	—	—	0.1	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.47	—	—	0.1	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.86	—	—	0.1	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.76	—	—	0.1	mg/L	Y	E	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.333	0.775	2.94	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.09	1.67	5.42	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.17	1.57	5.39	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.327	1.24	4.8	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.709	1.27	5.01	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.577	1.22	4.05	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	3.63	uS/cm	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	3.63	uS/cm	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	3.63	uS/cm	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131	—	—	3.63	uS/cm	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	3.63	uS/cm	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.5	—	—	1	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	52.8	—	—	1	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.9	—	—	1	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.5	—	—	1	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.5	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00159	0.091	0.31	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.125	0.129	0.499	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.145	0.114	0.479	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00874	0.123	0.416	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.297	0.119	0.48	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.142	0.478	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.23	—	—	0.133	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.2	—	—	0.133	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.25	—	—	0.133	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.1	—	—	0.133	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.11	—	—	0.133	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.26	—	—	0.133	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	88.6	—	—	3.4	mg/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	3.4	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0343	—	—	0.033	mg/L	Y	J	J	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.1	—	—	0.033	mg/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.11	—	—	0.033	mg/L	Y	—	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0506	—	—	0.02	mg/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0529	—	—	0.017	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.032	—	—	0.017	mg/L	Y	J	U	2014-4547	CALA-14-86025	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-140	47.6	190	—	pCi/L	Y	U	U	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-27.7	44.1	166	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	18.1	44.7	159	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	3.12	32.9	118	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	82.6	51.5	170	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	106	46.9	148	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.297	—	—	0.067	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.331	—	—	0.067	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.347	—	—	0.067	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.368	—	—	0.067	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.266	—	—	0.067	ug/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.357	0.03	0.0862	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.275	0.0253	0.0801	—	pCi/L	Y	—	J	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.257	0.0276	0.102	—	pCi/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.259	0.0249	0.0879	—	pCi/L	Y	—	NQ	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.267	0.0284	0.0605	—	pCi/L	Y	—	NQ	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0244	0.036	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0974	0.0181	0.0826	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0343	0.0102	0.0512	—	pCi/L	Y	U	U	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0359	0.0134	0.072	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.00933	0.055	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00344	0.00596	0.0444	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0174	0.00896	0.019	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.19	0.022	0.0861	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124853	GELC
R-6	1205	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.128	0.0176	0.0512	—	pCi/L	Y	—	NQ	2016-824	CALA-16-110553	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.126	0.0194	0.0947	—	pCi/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.0172	0.0448	—	pCi/L	Y	—	J	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0183	0.0351	—	pCi/L	Y	—	NQ	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.105	0.0156	0.0252	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.05	—	—	1	ug/L	Y	—	NQ	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9	—	—	1	ug/L	Y	—	NQ	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.67	—	—	1	ug/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.76	—	—	1	ug/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.58	—	—	1	ug/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.07	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.53	—	—	3.3	ug/L	Y	J	J	2016-2159	CALA-16-124869	GELC
R-6	1205	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2016-824	CALA-16-110557	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2014-4547	CALA-14-86025	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.23	—	—	0.01	SU	Y	H	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.38	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.2	—	—	1.45	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.725	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.5	—	—	0.725	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.9	—	—	0.725	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00394	0.00881	0.0323	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.011	0.00581	0.0329	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00779	0.0335	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-2.37E-09	0.0113	0.0598	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00529	0.00529	0.0444	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.017	0.0102	0.0436	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00364	0.00446	0.0308	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.95	—	—	1.7	ug/L	Y	J	J	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.72	—	—	1.7	ug/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.76	—	—	1.7	ug/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.8	—	—	1	ug/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.8	—	—	1	ug/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5	—	—	1	ug/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.6	—	—	1	ug/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.5	—	—	1	ug/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13	—	—	1	ug/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	12.6	—	—	1	ug/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	39	—	—	15	ug/L	Y	J	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.1	—	—	0.05	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.54	—	—	0.05	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.16	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.23	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.38	—	—	0.05	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.43	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.83	1.39	4.73	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.3	1.61	5.52	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.195	2.21	6.03	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.83	1.96	5.26	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.26	1.07	3.59	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.11	1.72	6.35	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.43	1.32	4.42	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.34	—	—	0.067	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.33	—	—	0.067	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.32	—	—	0.067	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.32	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.35	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.22	—	—	3	ug/L	Y	J	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.19	—	—	2	ug/L	Y	J	J	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	ug/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.1	—	—	2	ug/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.03	—	—	2	ug/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.34	—	—	2	ug/L	Y	J	J	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0641	1.59	6.93	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.41	1.53	5.52	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.6	1.47	6.1	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.13	1.63	5.05	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.915	1.02	3.62	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.5	1.78	4.73	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.65	1.27	4.43	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.254	—	—	0.033	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.32	—	—	0.033	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.307	—	—	0.033	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.319	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	RE	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.729	0.475	1.57	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	19.6	2.2	2.87	—	pCi/L	N	—	NQ	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.888	0.715	2.51	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.132	0.632	2.95	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.993	0.38	1.2	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.722	0.298	0.941	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.34	0.729	2.98	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.771	0.386	1.26	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.01	0.841	2.57	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.902	0.489	1.6	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.504	0.636	2.21	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.238	0.361	1.24	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.11	0.53	1.73	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.205	0.36	1.21	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.01	0.857	2.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.9	—	—	0.453	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.5	—	—	0.453	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.1	—	—	0.453	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.5	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.7	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.5	—	—	0.453	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.6	—	—	0.453	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.6	—	—	0.11	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.62	—	—	0.11	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.74	—	—	0.11	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.69	—	—	0.11	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.56	—	—	0.11	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.856	—	—	0.3	ug/L	Y	—	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.528	—	—	0.165	ug/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.543	—	—	0.165	ug/L	Y	—	U	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.63	—	—	0.165	ug/L	Y	—	U	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.605	—	—	0.165	ug/L	Y	—	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.571	—	—	0.165	ug/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.755	—	—	0.165	ug/L	Y	—	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.285	3.4	11.9	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.38	3.68	12.1	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.38	2.6	9.54	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.86	3.25	10.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.44	2.2	7.49	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0803	3.47	12.2	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.75	2.59	8.38	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.602	—	—	0.5	ug/L	Y	J	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.138	—	—	0.017	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.177	—	—	0.017	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.139	—	—	0.017	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.164	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.178	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.225	—	—	0.017	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.161	—	—	0.017	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.196	—	—	0.05	ug/L	Y	J	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.211	—	—	0.05	ug/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.198	—	—	0.05	ug/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.203	—	—	0.05	ug/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.198	—	—	0.05	ug/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.21	—	—	0.05	ug/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.205	—	—	0.05	ug/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0059	0.0059	0.0518	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00754	0.00596	0.0298	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00526	0.00632	0.0352	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00451	0.00432	0.0251	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00675	0.00673	0.0257	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00265	0.007	0.0363	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0107	0.00639	0.0173	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0147	0.0135	0.0651	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00942	0.00565	0.0274	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00351	0.00496	0.0314	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00572	0.00705	0.0327	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00468	0.00655	0.0335	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	8.82E-10	0.00648	0.0445	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	RE	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.00679	0.0665	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.0533	0.0149	0.0404	—	pCi/L	N	—	R	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.1	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.25	—	—	0.05	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.2	26.9	115	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.69	20.1	60.9	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13	18.1	66.8	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.4	22.3	58.4	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	10.3	16.6	57.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.5	17.1	60.5	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.7	21.6	44.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	62.4	—	—	0.053	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.8	—	—	0.053	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66	—	—	0.053	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.1	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.3	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.7	—	—	0.1	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.95	1.56	4.18	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0457	1.58	6.03	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.82	1.44	4.92	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.316	1.67	6.1	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.133	1.04	3.93	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.938	1.45	6.04	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.68	0.972	4.12	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	112	—	—	3.63	uS/cm	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	3.63	uS/cm	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	uS/cm	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	uS/cm	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	N	14.5	—	—	3.63	uS/cm	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	110	—	—	3.63	uS/cm	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	uS/cm	Y	—	NQ	2014-2833	CALA-14-54397	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	52.7	—	—	1	ug/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.3	—	—	1	ug/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48	—	—	1	ug/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.9	—	—	1	ug/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.6	—	—	1	ug/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.1	—	—	1	ug/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.7	—	—	1	ug/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0953	0.0998	0.342	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.159	0.125	0.486	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.157	0.118	0.492	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0266	0.133	0.478	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00586	0.139	0.485	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.193	0.124	0.487	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.156	0.508	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.83	—	—	0.133	mg/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.54	—	—	0.133	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.56	—	—	0.133	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.55	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.56	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.63	—	—	0.133	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.81	—	—	0.133	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	Y	0.707	—	—	0.45	ug/L	Y	J	J	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	72.9	—	—	3.4	mg/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	40	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	58.6	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	78.6	—	—	3.4	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.159	—	—	0.033	mg/L	Y	—	NQ	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0377	—	—	0.033	mg/L	Y	J	J	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0918	—	—	0.033	mg/L	Y	J	J	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.114	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0574	—	—	0.033	mg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.336	—	—	0.33	mg/L	Y	J	J	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.532	—	—	0.33	mg/L	Y	J	J	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.478	—	—	0.33	mg/L	Y	J	J	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.436	—	—	0.33	mg/L	Y	J	J	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.414	—	—	0.33	mg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.157	0.616	2.107	—	pCi/L	Y	U	U	2016-2324	CALA-16-124854	ARSL
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	32.4	47.2	165	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.019	0.61	2.08	—	pCi/L	Y	U	U	2016-843	CALA-16-110554	ARSL
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.442	0.623	2.141	—	pCi/L	Y	U	U	2015-2347	CALA-15-103990	ARSL
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.68	0.93	3.11	—	pCi/L	Y	U	U	2015-888	CALA-15-92855	ARSL

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.564	0.725	2.444	—	pCi/L	Y	U	U	2014-4466	CALA-14-86015	ARSL
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.638	0.633	2.085	—	pCi/L	Y	U	U	2014-2831	CALA-14-54394	ARSL
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.721	—	—	0.067	ug/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.72	—	—	0.067	ug/L	Y	—	NQ	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.735	—	—	0.067	ug/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.798	—	—	0.067	ug/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.792	—	—	0.067	ug/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.858	—	—	0.067	ug/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1	—	—	0.067	ug/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.527	0.036	0.0837	—	pCi/L	Y	—	NQ	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.605	0.042	0.109	—	pCi/L	Y	—	NQ	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.626	0.0426	0.117	—	pCi/L	Y	—	NQ	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.635	0.0414	0.0989	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.599	0.0366	0.0815	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.667	0.0457	0.0661	—	pCi/L	Y	—	NQ	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.75	0.0411	0.0401	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0223	0.0111	0.0802	—	pCi/L	Y	U	U	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0322	0.0119	0.0694	—	pCi/L	Y	U	U	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0413	0.0129	0.0828	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.011	0.0619	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.0117	0.051	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00377	0.00652	0.0485	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0249	0.00918	0.0211	—	pCi/L	Y	—	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.252	0.0255	0.0836	—	pCi/L	Y	—	NQ	2016-2254	CALA-16-124854	GELC
R-64	1285	03/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.263	0.0282	0.0694	—	pCi/L	Y	—	NQ	2016-824	CALA-16-110554	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.27	0.028	0.109	—	pCi/L	Y	—	NQ	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.328	0.0292	0.0504	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0238	0.0415	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.335	0.0328	0.0384	—	pCi/L	Y	—	NQ	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.309	0.0265	0.0281	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.07	—	—	1	ug/L	Y	—	NQ	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.45	—	—	1	ug/L	Y	J	J	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.48	—	—	1	ug/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.83	—	—	1	ug/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.78	—	—	1	ug/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.5	—	—	1	ug/L	Y	J	J	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.54	—	—	1	ug/L	Y	J	J	2014-2833	CALA-14-54397	GELC
R-64	1285	08/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.92	—	—	3.3	ug/L	Y	J	J	2016-2254	CALA-16-124870	GELC
R-64	1285	03/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2016-824	CALA-16-110558	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2014-4474	CALA-14-85997	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.3	—	—	1.45	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84	—	—	0.725	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.6	—	—	0.725	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.1	—	—	0.725	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.3	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.8	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.6	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.1	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00501	0.00792	0.0411	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0074	0.0074	0.0427	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-1.2E-09	0.0068	0.0417	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00822	0.00872	0.033	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00884	0.00779	0.0495	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00943	0.00832	0.0656	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0022	0.00583	0.046	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00759	0.0104	0.0325	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00795	0.00592	0.034	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0653	—	—	0.017	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0306	—	—	0.017	mg/L	Y	J	J	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.169	—	—	0.017	mg/L	Y	—	U	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0642	—	—	0.017	mg/L	Y	—	U	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0476	—	—	0.017	mg/L	Y	J	J+	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.178	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0724	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.7	—	—	1.7	ug/L	Y	J	J	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.04	—	—	1.7	ug/L	Y	J	J	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.64	—	—	1.7	ug/L	Y	J	J	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.89	—	—	1.7	ug/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.76	—	—	1.7	ug/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	3.11	—	—	1.7	ug/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.1	—	—	1	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.1	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.4	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31.1	—	—	1	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.2	—	—	1	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.4	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.9	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.8	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	37	—	—	15	ug/L	Y	J	J	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	39.7	—	—	15	ug/L	Y	J	J	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	41.2	—	—	15	ug/L	Y	J	J	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	39.9	—	—	15	ug/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	36.3	—	—	15	ug/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	40.3	—	—	15	ug/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	41.6	—	—	15	ug/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	35.5	—	—	15	ug/L	Y	J	J	2014-4474	CALA-14-86027	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	36	—	—	15	ug/L	Y	J	J	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.3	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.28	1.51	5.34	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.17	1.43	5.5	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-4.14	1.54	4.64	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.69	1.63	6.24	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0333	1.29	4.63	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.5	1.59	5.44	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.48	1.5	5.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.77	1.63	6.02	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0156	1.58	5.67	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.51	—	—	0.067	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.47	—	—	0.067	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.45	—	—	0.067	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.76	—	—	0.067	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.46	—	—	0.067	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.5	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.61	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.62	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.37	—	—	3	ug/L	Y	J	J	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.26	—	—	2	ug/L	Y	J	J	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.35	—	—	2	ug/L	Y	J	J	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.91	—	—	2	ug/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.1	—	—	2	ug/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.25	—	—	2	ug/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.28	—	—	2	ug/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.612	1.16	4.82	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.274	1.57	5.82	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.429	1.39	5.19	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.62	1.8	7.76	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.828	1.11	4.48	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.27	1.33	3.78	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.09	1.74	6.05	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0482	1.42	5.53	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.956	1.47	5.99	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.266	—	—	0.033	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.279	—	—	0.033	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.284	—	—	0.033	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.258	—	—	0.033	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.243	—	—	0.033	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.07	0.476	1.54	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.104	0.735	2.94	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.46	0.81	2.53	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.67	0.827	2.98	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.07	0.392	1.39	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.728	0.786	2.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.106	0.567	2.43	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.428	0.619	2.93	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.14	0.953	2.83	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.876	2.57	—	pCi/L	Y	—	J	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.513	0.534	1.76	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.49	0.355	1.09	—	pCi/L	Y	—	NQ	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.35	0.371	1.17	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.75	0.545	1.75	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.65	0.358	1.09	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.69	0.549	1.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.41	0.601	1.91	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.185	0.38	1.28	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.6	—	—	0.453	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.6	—	—	0.453	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.1	—	—	0.453	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.2	—	—	0.453	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.9	—	—	0.453	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.4	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.2	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.1	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.16	—	—	0.11	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.3	—	—	0.11	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.41	—	—	0.11	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.59	—	—	0.11	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5	—	—	0.11	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.67	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.11	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.33	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.33	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.3	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.59	—	—	0.165	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.165	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.165	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.165	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.51	—	—	0.165	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.5	—	—	0.165	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.17	2.09	7.45	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.231	2.68	9.36	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.704	3.03	10.5	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.23	3.48	12.6	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.88	2.36	8.99	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.62	2.85	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.02	2.87	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.14	2.95	10.9	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.192	3.08	10.7	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.613	—	—	0.017	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.653	—	—	0.017	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.676	—	—	0.017	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.654	—	—	0.017	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.641	—	—	0.017	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.646	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.648	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.723	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.688	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.506	—	—	0.05	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.505	—	—	0.05	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.512	—	—	0.05	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.49	—	—	0.05	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.486	—	—	0.05	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.464	—	—	0.05	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.472	—	—	0.05	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.507	—	—	0.05	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.469	—	—	0.05	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00685	0.00757	0.0401	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0029	0.0105	0.0435	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0149	0.0093	0.0373	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00214	0.00934	0.043	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00671	0.00592	0.0421	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00496	0.0271	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00214	0.00371	0.0287	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00492	0.00695	0.0337	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00258	0.00577	0.0354	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00456	0.00912	0.0503	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00869	0.0133	0.0551	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00746	0.00896	0.0472	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00643	0.00982	0.0383	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0134	0.00948	0.0545	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00405	0.00572	0.04	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00428	0.00741	0.0423	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0123	0.00886	0.0414	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00258	0.00447	0.0434	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.27	—	—	0.05	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.38	—	—	0.05	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.16	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.24	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.11	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.32	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.36	13.9	57.5	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13.6	21.6	49.7	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	21.8	19.5	72.1	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.1	20.5	72.9	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29	16.4	58.1	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.715	16.2	57	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18.8	20.2	54.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20	21.7	78.7	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.2	18.9	73.4	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	78.7	—	—	0.053	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.9	—	—	0.053	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	81	—	—	0.053	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.3	—	—	0.053	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.8	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.3	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.7	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	E	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	E	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.98	0.973	4.38	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.238	1.36	5.12	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.4	1.77	4.83	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.17	1.87	6.1	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.343	1.38	5.05	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.214	1.24	4.85	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.12	1.18	4.8	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.29	1.46	5.5	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.922	1.53	5.74	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	170	—	—	3.63	uS/cm	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	197	—	—	3.63	uS/cm	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	193	—	—	3.63	uS/cm	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	uS/cm	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	3.63	uS/cm	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	uS/cm	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	uS/cm	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	163	—	—	3.63	uS/cm	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	176	—	—	3.63	uS/cm	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.4	—	—	1	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	72.7	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	74	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	80.6	—	—	1	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	77.3	—	—	1	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	81.6	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	78.8	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.3	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.1	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0473	0.139	0.495	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.306	0.121	0.497	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0694	0.112	0.423	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0641	0.121	0.49	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.141	0.482	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.013	0.132	0.482	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.145	0.49	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.172	0.125	0.487	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0775	0.132	0.481	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.36	—	—	0.133	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.35	—	—	0.133	mg/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.31	—	—	0.133	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.32	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.35	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.44	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.48	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Thallium	Tl	Y	0.579	—	—	0.45	ug/L	Y	J	J	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	ug/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	183	—	—	3.4	mg/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	J	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0221	—	—	0.017	mg/L	Y	J	J	2016-818	CALA-16-110551	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0283	—	—	0.017	mg/L	Y	J	J	2016-818	CALA-16-110559	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.017	—	—	0.017	mg/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.879	0.533	1.822	—	pCi/L	Y	U	U	2016-2324	CALA-16-124855	ARSL
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.689	0.739	2.242	—	pCi/L	Y	U	U	2016-843	CALA-16-110555	ARSL
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.2	0.685	2.166	—	pCi/L	Y	U	U	2016-843	CALA-16-110550	ARSL
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.931	0.782	2.337	—	pCi/L	Y	U	U	2015-2347	CALA-15-103991	ARSL
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.97	1.22	3.9	—	pCi/L	Y	U	U	2015-886	CALA-15-92868	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.726	0.686	2.29	—	pCi/L	Y	U	U	2015-501	CALA-15-90560	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.175	0.748	2.558	—	pCi/L	Y	U	U	2015-501	CALA-15-90548	ARSL
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.67	0.715	2.395	—	pCi/L	Y	U	U	2014-4478	CALA-14-86016	ARSL
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.863	0.715	2.331	—	pCi/L	Y	U	U	2014-4478	CALA-14-85996	ARSL

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.704	—	—	0.067	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.675	—	—	0.067	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.665	—	—	0.067	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.628	—	—	0.067	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.633	—	—	0.067	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.676	—	—	0.067	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.692	—	—	0.067	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.697	—	—	0.067	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.5	0.0352	0.0881	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.422	0.0455	0.178	—	pCi/L	Y	—	J-	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.606	0.0496	0.159	—	pCi/L	Y	—	NQ	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.552	0.0406	0.123	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.559	0.0379	0.0943	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.477	0.0339	0.0467	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.536	0.0347	0.0417	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.514	0.0346	0.0487	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.482	0.0327	0.0451	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00586	0.00717	0.0844	—	pCi/L	Y	U	U	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0165	0.0123	0.113	—	pCi/L	Y	U	U	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0294	0.0155	0.101	—	pCi/L	Y	U	U	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0289	0.0125	0.0869	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0302	0.0113	0.059	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00846	0.00846	0.0407	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0176	0.0104	0.0364	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.025	0.01	0.0358	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0205	0.00812	0.0331	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.275	0.026	0.088	—	pCi/L	Y	—	NQ	2016-2284	CALA-16-124855	GELC
R-66	819.4	02/29/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.217	0.0329	0.111	—	pCi/L	Y	—	J-	2016-818	CALA-16-110550	GELC
R-66	819.4	02/29/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.162	0.0266	0.0994	—	pCi/L	Y	—	NQ	2016-818	CALA-16-110555	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.234	0.0268	0.114	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.232	0.0243	0.048	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0235	0.0448	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.228	0.0225	0.04	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0231	0.0283	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.195	0.0208	0.0262	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-85996	GELC
R-66	819.4	08/30/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.2	—	—	1	ug/L	Y	—	NQ	2016-2284	CALA-16-124871	GELC
R-66	819.4	02/29/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.4	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110559	GELC
R-66	819.4	02/29/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.6	—	—	1	ug/L	Y	—	NQ	2016-818	CALA-16-110551	GELC
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.5	—	—	1	ug/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.3	—	—	1	ug/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.9	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12	—	—	1	ug/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.7	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.7	—	—	1	ug/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.87	—	—	0.01	SU	Y	H	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.45	—	—	0.01	SU	Y	H	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.74	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.8	—	—	0.01	SU	Y	H	NQ	12-1518	CALA-12-22831	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.3	—	—	1.45	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.5	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.1	—	—	0.725	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00474	0.00671	0.0389	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0079	0.0079	0.0423	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00379	0.00464	0.0304	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0146	0.00975	0.0313	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00246	0.0055	0.0206	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00587	0.0246	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.00769	0.0352	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00728	0.00543	0.0333	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0266	—	—	0.017	mg/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.107	—	—	0.017	mg/L	Y	—	U	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0546	—	—	0.017	mg/L	Y	—	U	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0275	—	—	0.017	mg/L	Y	J	U	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.71	—	—	1.7	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.71	—	—	1.7	ug/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.91	—	—	1.7	ug/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	20.7	—	—	1	ug/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.4	—	—	1	ug/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.5	—	—	1	ug/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.3	—	—	1	ug/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	ug/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.4	—	—	15	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.1	—	—	15	ug/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	22.2	—	—	15	ug/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.1	—	—	15	ug/L	Y	J	J	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.3	—	—	15	ug/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	21.3	—	—	15	ug/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.1	—	—	15	ug/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0903	—	—	0.067	mg/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0766	—	—	0.067	mg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0857	—	—	0.067	mg/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0729	—	—	0.067	mg/L	Y	J	J	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-1614	CALA-13-39178	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0762	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0903	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.8	—	—	0.05	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.4	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.3	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	21.8	—	—	0.05	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.5	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.3	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.2	1.08	3.56	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.99	1.69	5.9	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.97	1.58	5.46	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.08	1.75	5.68	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.489	1.7	5.31	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.027	2.2	5.12	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.8	1.63	5.61	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.58	1.62	5.35	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.4	—	—	0.335	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.5	—	—	0.268	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.4	—	—	0.268	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.335	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.8	—	—	0.335	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.4	—	—	0.335	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.067	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.067	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.2	—	—	2	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	ug/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.21	—	—	2	ug/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.56	—	—	2	ug/L	Y	J	J	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.92	—	—	2	ug/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.08	—	—	2	ug/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.94	—	—	2	ug/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0448	1.01	3.86	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.8	1.55	5.75	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.44	1.59	5.74	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.04	1.3	5.42	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.81	1.61	5.49	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.91	1.4	4.75	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.21	1.5	6.05	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.33	1.36	6	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.681	—	—	0.033	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.754	—	—	0.033	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.745	—	—	0.033	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.689	—	—	0.033	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.723	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.724	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.695	—	—	0.033	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.706	—	—	0.033	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.64	0.485	1.48	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.0313	0.696	2.86	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.137	0.684	2.95	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.67	0.974	3.04	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.871	0.544	2.82	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	2.7	0.879	1.96	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.24	0.695	2.1	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.499	0.55	2.06	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.583	0.66	2.55	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.25	0.725	2.19	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.73	0.774	2.61	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.943	0.348	1.12	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-1.91	0.646	2.88	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	-1.17	0.711	2.83	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.664	0.624	2.16	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.326	0.609	2.23	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67	—	—	0.453	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73.2	—	—	0.453	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.8	—	—	0.453	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	71.1	—	—	0.453	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73.3	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.7	—	—	0.453	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.45	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.68	—	—	0.11	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.17	—	—	0.11	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.04	—	—	0.11	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.13	—	—	0.11	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.1	—	—	0.11	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52	—	—	0.165	ug/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.165	ug/L	Y	—	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.57	—	—	0.165	ug/L	Y	—	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.56	—	—	0.165	ug/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	ug/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	ug/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.17	ug/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.28	1.71	6.05	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.752	2.59	9.23	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.27	3.16	10.8	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.88	2.78	9.4	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.37	3.31	11.1	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.52	2.89	10.8	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.89	3.15	11.5	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.801	2.67	9.83	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.1	—	—	0.5	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.795	—	—	0.5	ug/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.843	—	—	0.5	ug/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.21	—	—	0.5	ug/L	Y	J	J	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.24	—	—	0.5	ug/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.27	—	—	0.5	ug/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.3	—	—	0.5	ug/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.4	—	—	0.085	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.33	—	—	0.085	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.47	—	—	0.085	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.62	—	—	0.085	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.81	—	—	0.17	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.95	—	—	0.17	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.57	—	—	0.085	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.21	—	—	0.085	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.26	—	—	0.5	ug/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	5.76	—	—	0.5	ug/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	5.72	—	—	0.5	ug/L	Y	—	J+	2015-2329	CALA-15-104014	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.48	—	—	0.5	ug/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.38	—	—	0.5	ug/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.2	—	—	0.5	ug/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	5.98	—	—	0.5	ug/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	6.09	—	—	0.5	ug/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0176	0.00695	0.0387	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00399	0.00489	0.04	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00207	0.00686	0.0415	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00787	0.044	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00228	0.0225	0.0483	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0293	0.0238	0.0471	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00346	0.0246	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00347	0.0247	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.47E-09	0.00695	0.0485	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00998	0.00719	0.0357	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00413	0.0109	0.037	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00321	0.0085	0.054	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00891	0.0157	0.0727	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00485	0.018	0.0709	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00489	0.00489	0.0289	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0098	0.006	0.029	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.608	—	—	0.05	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.671	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	0.683	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.606	—	—	0.05	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.645	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	0.621	—	—	0.05	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.706	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.8	22	40.9	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.3	15.4	63.2	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.78	17.7	65	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.9	18	72.6	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.8	19.8	82.5	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-6.47	19	70.2	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.2	18.3	75.6	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-32.1	17.6	59.9	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.4	—	—	0.053	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.2	—	—	0.053	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.8	—	—	0.053	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.4	—	—	0.053	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.5	—	—	0.053	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	19.8	—	—	0.1	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	19.6	—	—	0.1	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	20.9	—	—	0.1	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.1	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.7	—	—	0.1	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.603	0.872	3.17	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.913	1.23	5.01	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.58	1.77	5.29	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.654	1.37	5.51	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.35	1.67	7.16	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.6	1.42	4.58	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.17	1.42	6.07	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.17	1.39	5.45	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	225	—	—	3.63	uS/cm	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	228	—	—	3.63	uS/cm	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	223	—	—	3.63	uS/cm	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	222	—	—	3.63	uS/cm	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	uS/cm	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	242	—	—	1	uS/cm	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	uS/cm	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	uS/cm	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	91	—	—	1	ug/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	95.7	—	—	1	ug/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	93.4	—	—	1	ug/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	ug/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	ug/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	ug/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0871	0.128	0.483	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.28	0.116	0.473	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0555	0.121	0.488	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.14	0.128	0.479	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.057	0.128	0.48	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0754	0.139	0.494	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0852	0.0492	0.162	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0497	0.0428	0.155	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.43	—	—	0.133	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.83	—	—	0.133	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.79	—	—	0.133	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.12	—	—	0.133	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.43	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.34	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.44	—	—	0.133	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.41	—	—	0.133	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	3.4	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	200	—	—	3.4	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	3.4	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	201	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	184	—	—	3.4	mg/L	Y	—	NQ	12-1518	CALA-12-22831	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	199	—	—	3.4	mg/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0815	—	—	0.02	mg/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0739	—	—	0.017	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0558	—	—	0.017	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0793	—	—	0.017	mg/L	Y	—	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0512	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.333	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.101	—	—	0.017	mg/L	Y	—	U	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0821	—	—	0.017	mg/L	Y	—	U	12-1518	CALA-12-22803	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1990	110	195	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2180	115	161	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2250	117	161	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2420	117	153	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2280	86.1	192	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2060	82.5	188	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2550	100	129	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2630	102	131	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.388	—	—	0.067	ug/L	Y	—	NQ	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.443	—	—	0.067	ug/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.423	—	—	0.067	ug/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.34	—	—	0.067	ug/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.352	—	—	0.067	ug/L	Y	—	NQ	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.377	—	—	0.067	ug/L	Y	—	NQ	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.448	—	—	0.067	ug/L	Y	—	NQ	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.382	0.0316	0.0904	—	pCi/L	Y	—	NQ	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.384	0.0328	0.115	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.424	0.0319	0.0951	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.377	0.0304	0.0502	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.423	0.0315	0.0488	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.406	0.0321	0.0504	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.361	0.0335	0.0753	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.369	0.0325	0.0681	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0661	0.0159	0.0867	—	pCi/L	Y	U	U	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0135	0.00825	0.0811	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.039	0.0131	0.0671	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0171	0.00903	0.0368	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00556	0.00681	0.0299	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00287	0.00759	0.0309	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00697	0.0486	—	pCi/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00946	0.00705	0.044	—	pCi/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.214	0.0231	0.0903	—	pCi/L	Y	—	J	2016-2159	CALA-16-124856	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.0211	0.107	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.153	0.0199	0.0882	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.143	0.0193	0.0291	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.0168	0.0424	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.018	0.0437	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.124	0.0195	0.0382	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.0189	0.0346	—	pCi/L	Y	—	NQ	12-1518	CALA-12-22801	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.07	—	—	1	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.4	—	—	1	ug/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.36	—	—	1	ug/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.69	—	—	1	ug/L	Y	J	J	2014-4488	CALA-14-86028	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.43	—	—	1	ug/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.19	—	—	1	ug/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.87	—	—	1	ug/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	08/23/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.53	—	—	3.3	ug/L	Y	J	J	2016-2159	CALA-16-124872	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	9.5	—	—	3.3	ug/L	Y	J	J	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.92	—	—	3.3	ug/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.84	—	—	3.3	ug/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.35	—	—	3.3	ug/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	—	—	0.01	SU	Y	H	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.21	—	—	0.01	SU	Y	H	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.3	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	—	—	0.01	SU	Y	H	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.3	—	—	1.45	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.1	—	—	0.725	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.5	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.725	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.8	—	—	0.73	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.27	—	—	1.7	ug/L	Y	J	J	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.59	—	—	1.7	ug/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.6	—	—	1.7	ug/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.9	—	—	1	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.1	—	—	1	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.7	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.8	—	—	1	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	15.6	—	—	15	ug/L	Y	J	J	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.6	—	—	15	ug/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	ug/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.4	—	—	15	ug/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	ug/L	Y	J	J	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17	—	—	0.05	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.3	—	—	0.05	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.7	—	—	0.05	mg/L	Y	—	J+	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.45	—	—	0.067	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.4	—	—	0.067	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.37	—	—	0.066	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.34	—	—	3	ug/L	Y	J	J	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.46	—	—	2	ug/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.42	—	—	2	ug/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.414	—	—	0.033	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.449	—	—	0.033	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.479	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.477	—	—	0.033	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.451	—	—	0.033	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.2	—	—	0.453	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.7	—	—	0.453	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.9	—	—	0.453	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.453	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.45	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.6	—	—	0.11	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.65	—	—	0.11	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.83	—	—	0.11	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.66	—	—	0.11	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.55	—	—	0.11	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.5	—	—	0.3	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.8	—	—	0.165	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.66	—	—	0.165	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52	—	—	0.17	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.476	—	—	0.017	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.519	—	—	0.017	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.511	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.587	—	—	0.017	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.468	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.33	—	—	0.05	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.318	—	—	0.05	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.322	—	—	0.05	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.328	—	—	0.05	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.344	—	—	0.05	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.97	—	—	0.05	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.97	—	—	0.05	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.05	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.99	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.04	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	56.2	—	—	0.053	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	58.1	—	—	0.053	mg/L	Y	—	J-	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.1	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58	—	—	0.053	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.6	—	—	0.053	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.15	—	—	0.1	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.05	—	—	0.1	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.73	—	—	0.1	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.06	—	—	0.1	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.33	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	139	—	—	3.63	uS/cm	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	12300	—	—	1	uS/cm	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	uS/cm	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	uS/cm	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	uS/cm	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	89.8	—	—	1	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.6	—	—	1	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	91.7	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88	—	—	1	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88.8	—	—	1	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.52	—	—	0.133	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.39	—	—	0.133	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.39	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.42	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	125	—	—	2.4	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.251	—	—	0.067	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.297	—	—	0.067	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.302	—	—	0.067	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.277	—	—	0.067	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.8	—	—	1	ug/L	Y	—	NQ	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.8	—	—	1	ug/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.1	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.1	—	—	1	ug/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	ug/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	08/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.82	—	—	3.3	ug/L	Y	J	J	2016-2317	CALA-16-124873	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.17	—	—	3.3	ug/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.77	—	—	3.3	ug/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.81	—	—	0.01	SU	Y	H	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.62	—	—	0.01	SU	Y	H	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.66	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	9.03	—	—	0.01	SU	Y	H	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.68	—	—	0.01	SU	Y	H	J-	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	16.1	—	—	1.45	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.13	—	—	0.725	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	7.44	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.44	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	8.42	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.3	—	—	1.45	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.7	—	—	0.725	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	88.7	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.8	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.4	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.15	—	—	1.7	ug/L	Y	J	J	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.38	—	—	1.7	ug/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.73	—	—	1.7	ug/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.51	—	—	1.7	ug/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.75	—	—	1.7	ug/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	161	—	—	1	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	194	—	—	1	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	192	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	198	—	—	1	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	164	—	—	1	ug/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	30.7	—	—	15	ug/L	Y	J	J	2016-2335	CALA-16-124874	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	35.4	—	—	15	ug/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	32.5	—	—	15	ug/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	31.8	—	—	15	ug/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	34.8	—	—	15	ug/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0693	—	—	0.067	mg/L	Y	J	J	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.2	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.38	—	—	0.067	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.53	—	—	0.067	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.69	—	—	0.067	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.57	—	—	0.066	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.55	—	—	3	ug/L	Y	J	J	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.75	—	—	2	ug/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.2	—	—	2	ug/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.86	—	—	2	ug/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.03	—	—	2	ug/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.282	—	—	0.033	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.356	—	—	0.033	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.377	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.351	—	—	0.033	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.6	—	—	0.453	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.4	—	—	0.453	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.2	—	—	0.453	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.1	—	—	0.453	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.1	—	—	0.45	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.52	—	—	0.11	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.99	—	—	0.11	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.15	—	—	0.11	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.02	—	—	0.11	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.76	—	—	0.11	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.14	—	—	0.3	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.165	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.165	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.165	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	ug/L	Y	—	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.487	—	—	0.085	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.476	—	—	0.017	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.49	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.482	—	—	0.017	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.565	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.416	—	—	0.05	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.424	—	—	0.05	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.443	—	—	0.05	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	09/05/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.423	—	—	0.05	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.431	—	—	0.05	ug/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.13	—	—	0.05	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.19	—	—	0.05	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.12	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.7	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.06	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.3	—	—	0.053	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	76.8	—	—	0.053	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.6	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.4	—	—	0.053	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.4	—	—	0.053	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.1	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17	—	—	0.1	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.9	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	168	—	—	3.63	uS/cm	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	214	—	—	1	uS/cm	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	189	—	—	1	uS/cm	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	1	uS/cm	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	uS/cm	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	140	—	—	1	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	138	—	—	1	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	153	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	175	—	—	1	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	ug/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.75	—	—	0.133	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.04	—	—	0.133	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	3.4	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	191	—	—	3.4	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	2.4	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0756	—	—	0.02	mg/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0494	—	—	0.017	mg/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0677	—	—	0.017	mg/L	Y	—	U	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0813	—	—	0.015	mg/L	Y	—	U	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.458	—	—	0.067	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.705	—	—	0.067	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.811	—	—	0.067	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.659	—	—	0.067	ug/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	09/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.4	—	—	1	ug/L	Y	—	NQ	2016-2335	CALA-16-124874	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.2	—	—	1	ug/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.1	—	—	1	ug/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.5	—	—	1	ug/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.6	—	—	1	ug/L	Y	—	J	11-1695	CALA-11-5182	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	115	—	—	1.45	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	109	—	—	0.725	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	107	—	—	0.725	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.725	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	112	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0505	0.0266	0.138	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00255	0.00845	0.041	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00988	0.00699	0.0317	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0087	0.00649	0.0243	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00754	0.00462	0.0261	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.87	—	—	1.7	ug/L	Y	J	J	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.03	—	—	1.7	ug/L	Y	J	J	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.94	—	—	1.7	ug/L	Y	J	J	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.42	—	—	1.7	ug/L	Y	J	J	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	10.1	—	—	1	ug/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	176	—	—	1	ug/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	167	—	—	1	ug/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	180	—	—	1	ug/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	171	—	—	1	ug/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0764	—	—	0.067	mg/L	Y	J	J	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0785	—	—	0.067	mg/L	Y	J	J	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	7.11	—	—	0.05	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.5	—	—	0.05	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.7	—	—	0.05	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.3	—	—	0.05	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.9	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0228	1.05	3.56	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.14	1.75	6.48	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.52	1.75	5.98	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.51	1.97	5.21	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.32	1.8	6.94	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.2	—	—	0.067	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.77	—	—	0.067	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.84	—	—	0.067	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.17	—	—	0.067	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.28	—	—	0.067	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.73	—	—	2	ug/L	Y	J	J	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.31	—	—	2	ug/L	Y	J	J	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.29	—	—	2	ug/L	Y	J	J	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.97	—	—	2	ug/L	Y	J	J	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.66	—	—	2	ug/L	Y	J	J	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.1	1.88	4.13	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0085	1.18	4.68	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.627	1.67	6.11	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0399	2.07	7.59	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.47	1.6	6.51	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.205	—	—	0.033	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.214	—	—	0.033	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.252	—	—	0.033	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.61	0.461	1.39	—	pCi/L	Y	—	NQ	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.1	0.967	2.91	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.55	0.909	2.88	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.604	0.73	2.74	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.29	0.667	1.83	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.81	1.06	2.66	—	pCi/L	Y	—	NQ	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	0.429	1.24	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.29	0.446	1.25	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.36	0.794	2.6	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.25	0.794	2.51	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	25.9	—	—	0.453	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.8	—	—	0.453	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.3	—	—	0.453	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.9	—	—	0.453	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.3	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.98	—	—	0.11	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.95	—	—	0.11	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.97	—	—	0.11	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.23	—	—	0.11	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.82	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.165	ug/L	Y	—	J	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.38	—	—	0.165	ug/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	ug/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.165	ug/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.165	ug/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.523	1.87	6.31	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.76	2.77	9.6	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.75	4.1	11.1	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.95	3	10.2	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.526	3.04	10.7	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.705	—	—	—	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.83	—	—	0.085	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.864	—	—	0.017	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.98	—	—	0.085	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.899	—	—	0.017	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.993	—	—	0.1	ug/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.05	—	—	0.1	ug/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.34	—	—	0.1	ug/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.3	—	—	0.1	ug/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.16	—	—	0.1	ug/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00461	0.0103	0.081	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00479	0.00757	0.048	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.006	0.00849	0.0411	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00514	0.00813	0.023	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00406	0.0289	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00921	0.013	0.102	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00239	0.00987	0.0429	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.006	0.00848	0.0505	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0103	0.00727	0.0345	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00287	0.00641	0.0339	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.08	—	—	0.05	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.92	—	—	0.05	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.76	—	—	0.05	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.77	—	—	0.05	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.62	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	25.9	18.2	32	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.8	15.9	59.4	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	25.3	21.8	87	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.5	28.3	60.5	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.1	29.3	73.1	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.5	—	—	0.053	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75	—	—	0.053	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.9	—	—	0.053	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.2	—	—	0.053	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.1	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.26	—	—	0.1	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.6	—	—	0.1	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.5	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.683	0.868	2.94	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.17	1.37	5.66	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.63	1.6	6.67	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.27	1.53	5.7	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.65	1.72	5.91	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	242	—	—	3.63	uS/cm	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	1	uS/cm	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	3.63	uS/cm	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	253	—	—	1	uS/cm	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	250	—	—	1	uS/cm	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	63.5	—	—	1	ug/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	183	—	—	1	ug/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	179	—	—	1	ug/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	186	—	—	1	ug/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	177	—	—	1	ug/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.149	0.124	0.481	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.19	0.116	0.487	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.314	0.124	0.489	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.168	0.127	0.467	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.112	0.125	0.429	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.14	—	—	0.133	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.46	—	—	0.133	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.71	—	—	0.133	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.18	—	—	0.133	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.24	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	203	—	—	3.4	mg/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	210	—	—	3.4	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	196	—	—	3.4	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0609	—	—	0.033	mg/L	Y	J	J	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0336	—	—	0.033	mg/L	Y	J	J	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0401	—	—	0.033	mg/L	Y	J	J	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0489	—	—	0.02	mg/L	Y	J	J	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0426	—	—	0.017	mg/L	Y	J	U	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0494	—	—	0.017	mg/L	Y	J	U	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-135	45.2	180	—	pCi/L	Y	U	U	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-11	43.3	160	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-7.05	41.8	154	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	28.2	51	171	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	65.7	49	165	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.67	—	—	0.067	ug/L	Y	—	NQ	2016-2197	CALA-16-124875	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.71	—	—	0.067	ug/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.43	—	—	0.067	ug/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.83	—	—	0.067	ug/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.78	—	—	0.067	ug/L	Y	—	NQ	12-1543	CALA-12-22903	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.28	0.0562	0.091	—	pCi/L	Y	—	NQ	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.18	0.0606	0.127	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.03	0.0524	0.057	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.813	0.049	0.0637	—	pCi/L	Y	—	J	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.08	0.0502	0.0599	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.127	0.021	0.0872	—	pCi/L	Y	—	NQ	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.052	0.0148	0.0894	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.026	0.0122	0.0419	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.0103	0.039	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0246	0.0113	0.0254	—	pCi/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	08/25/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.7	0.0417	0.0909	—	pCi/L	Y	—	NQ	2016-2197	CALA-16-124859	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.576	0.0422	0.117	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.502	0.0369	0.0331	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.352	0.0324	0.0553	—	pCi/L	Y	—	J	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.493	0.0333	0.0298	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22897	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.81	—	—	0.01	SU	Y	H	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.73	—	—	0.01	SU	Y	H	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	J-	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76	—	—	1.45	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.9	—	—	0.725	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.6	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.73	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	56.6	—	—	1	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	53	—	—	1	ug/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	60	—	—	1	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.2	—	—	1	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	60.4	—	—	1	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.6	—	—	15	ug/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	23.7	—	—	15	ug/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	20.8	—	—	15	ug/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.9	—	—	15	ug/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.4	—	—	15	ug/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.067	mg/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.134	—	—	0.067	mg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.125	—	—	0.067	mg/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.067	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.147	—	—	0.066	mg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.4	—	—	0.05	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.5	—	—	0.05	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.2	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.9	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	37.3	—	—	0.67	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.1	—	—	0.67	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.2	—	—	0.67	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.5	—	—	0.335	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.6	—	—	0.66	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	2.39	—	—	1	ug/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	2.1	—	—	1	ug/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.45	—	—	1	ug/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.78	—	—	3	ug/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.17	—	—	3	ug/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	8.73	—	—	3	ug/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.451	—	—	0.033	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.377	—	—	0.033	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.425	—	—	0.033	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.325	—	—	0.033	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	93.1	—	—	0.453	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	94.7	—	—	0.453	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	96.9	—	—	0.453	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.8	—	—	0.45	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	36	—	—	30	ug/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	N	100	—	—	30	ug/L	Y	U	U	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	55.5	—	—	30	ug/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	84.7	—	—	30	ug/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	142	—	—	30	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.4	—	—	0.11	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.72	—	—	0.11	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.84	—	—	0.11	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.85	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.66	—	—	0.11	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	253	—	—	2	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.49	—	—	2	ug/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	251	—	—	2	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	215	—	—	2	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	160	—	—	2	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	7.45	—	—	0.3	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	8.09	—	—	0.165	ug/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	9.45	—	—	0.165	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	8.56	—	—	0.165	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11	—	—	0.17	ug/L	Y	—	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	179	—	—	0.5	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	141	—	—	2.5	ug/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	74.7	—	—	0.5	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	93.8	—	—	0.5	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	117	—	—	0.5	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0409	—	—	0.017	mg/L	Y	J	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.218	—	—	0.017	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0207	—	—	0.017	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.9	—	—	0.05	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.84	—	—	0.05	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.77	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.45	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.48	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	33.7	—	—	0.053	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	34.3	—	—	0.053	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	34.7	—	—	0.053	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	32.2	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	31.3	—	—	0.053	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	23.2	—	—	0.1	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.4	—	—	0.1	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.1	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	310	—	—	3.63	uS/cm	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	275	—	—	1	uS/cm	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	306	—	—	1	uS/cm	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	310	—	—	1	uS/cm	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	301	—	—	1	uS/cm	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	140	—	—	1	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	128	—	—	1	ug/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	141	—	—	1	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	133	—	—	1	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	130	—	—	1	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.9	—	—	0.133	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.4	—	—	0.133	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.8	—	—	0.133	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.5	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	200	—	—	3.4	mg/L	Y	—	J	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	3.4	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	182	—	—	2.4	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.06	—	—	0.33	mg/L	Y	—	NQ	2016-2383	CALA-16-124860	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.17	—	—	0.33	mg/L	Y	—	NQ	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.72	—	—	0.33	mg/L	Y	—	NQ	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.26	—	—	0.33	mg/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.05	—	—	0.33	mg/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0834	—	—	0.02	mg/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0404	—	—	0.017	mg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0615	—	—	0.017	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0451	—	—	0.017	mg/L	Y	J	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0342	—	—	0.015	mg/L	Y	J	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	09/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.97	—	—	0.067	ug/L	Y	—	NQ	2016-2383	CALA-16-124876	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.3	—	—	0.067	ug/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	ug/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.955	—	—	0.067	ug/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	ug/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.21	—	—	0.01	SU	Y	H	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.28	—	—	0.01	SU	Y	H	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.6	—	—	0.01	SU	Y	H	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.45	—	—	0.01	SU	Y	H	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.3	—	—	0.01	SU	Y	H	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	100	—	—	1.45	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	98	—	—	0.725	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90.8	—	—	0.725	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.2	—	—	0.725	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	93.3	—	—	0.725	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00291	0.0065	0.0478	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0081	0.00641	0.0326	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0138	0.0103	0.0582	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00486	0.00688	0.0204	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00244	0.00545	0.0334	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.75	—	—	1.7	ug/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.11	—	—	1.7	ug/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.2	—	—	1	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	41.9	—	—	1	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.8	—	—	1	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	41.2	—	—	1	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.8	—	—	1	ug/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	40.6	—	—	1	ug/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	28.6	—	—	15	ug/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	30.7	—	—	15	ug/L	Y	J	J	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	28.8	—	—	15	ug/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	28.5	—	—	15	ug/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	29.4	—	—	15	ug/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	28.7	—	—	15	ug/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.73	—	—	0.067	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.81	—	—	0.067	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.88	—	—	0.067	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.9	—	—	0.067	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.8	—	—	0.067	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	42.5	—	—	0.05	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	40	—	—	0.05	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	39.5	—	—	0.05	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.9	—	—	0.05	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	35.5	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.1	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.721	0.883	3.34	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0228	1.07	3.94	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.14	2.56	4.14	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.69	5.76	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.04	1.75	6	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	35.9	—	—	0.67	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.1	—	—	0.335	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	36	—	—	0.67	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	35.6	—	—	0.67	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.7	—	—	0.335	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.22	—	—	2	ug/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.68	—	—	2	ug/L	Y	J	U	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.42	—	—	2	ug/L	Y	J	U	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.38	—	—	2	ug/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.25	—	—	2	ug/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.2	—	—	2	ug/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.162	0.767	2.93	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.539	1.01	3.93	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.097	1.13	3.79	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.692	1.66	6.59	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.042	1.22	4.81	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	5.4	—	—	3	ug/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.73	—	—	3	ug/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.46	—	—	3	ug/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0804	—	—	0.033	mg/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.123	—	—	0.033	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0959	—	—	0.033	mg/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.166	—	—	0.033	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.138	—	—	0.033	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.07	0.849	2.91	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0877	0.673	2.95	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.997	0.835	2.93	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.22	0.563	2.76	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.1	0.876	2.17	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.92	0.945	2.49	—	pCi/L	Y	—	NQ	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.66	0.884	2.32	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.57	0.421	1.11	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	0.921	2.48	—	pCi/L	Y	—	NQ	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.24	0.809	1.95	—	pCi/L	Y	—	J	12-1519	CALA-12-22823	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	141	—	—	0.453	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	134	—	—	0.453	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	131	—	—	0.453	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	119	—	—	0.45	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	124	—	—	0.45	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.45	—	—	0.11	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.3	—	—	0.11	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.2	—	—	0.11	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.24	—	—	0.11	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.31	—	—	0.11	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.68	—	—	0.11	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.29	—	—	2	ug/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.56	—	—	2	ug/L	Y	J	J	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.95	—	—	2	ug/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.09	—	—	2	ug/L	Y	J	J	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.58	—	—	2	ug/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.22	—	—	2	ug/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	163	—	—	0.165	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	160	—	—	0.33	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	175	—	—	0.825	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	122	—	—	0.825	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	107	—	—	0.17	ug/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	105	—	—	0.17	ug/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.438	1.62	5.95	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.17	2.54	8.61	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.28	2.35	8.05	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0781	3.09	10.7	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.51	2.92	9.74	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	13.5	—	—	0.5	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	15.7	—	—	0.5	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.45	—	—	0.5	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.66	—	—	0.5	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	12.4	—	—	0.5	ug/L	Y	—	J	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	ug/L	Y	—	J	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.09	—	—	0.017	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.04	—	—	0.017	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.08	—	—	0.017	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.09	—	—	0.017	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.08	—	—	0.085	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.587	—	—	0.05	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.604	—	—	0.05	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.579	—	—	0.05	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.602	—	—	0.05	ug/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.631	—	—	0.05	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00202	0.00533	0.0354	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00198	0.00713	0.0396	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00285	0.00638	0.0391	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00276	0.00478	0.0247	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00478	0.00585	0.0241	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00202	0.00668	0.0445	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00395	0.00739	0.0354	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00855	0.0131	0.048	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00552	0.037	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00239	0.00414	0.0282	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.58	—	—	0.05	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.52	—	—	0.05	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.7	—	—	0.05	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.65	—	—	0.05	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.21	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.6	18.5	31.9	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.7	15.3	40	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.24	18.7	60.1	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.7	19.4	77.6	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.4	17.8	76.6	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	62.3	—	—	0.053	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.5	—	—	0.053	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.7	—	—	0.053	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.7	—	—	0.053	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.2	—	—	0.1	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.4	—	—	0.1	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.562	0.728	2.65	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.35	1.21	4.66	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.51	1.26	4.59	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.806	1.66	6.63	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-4.11	1.65	4.97	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	360	—	—	3.63	uS/cm	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	348	—	—	3.63	uS/cm	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	337	—	—	3.63	uS/cm	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	356	—	—	1	uS/cm	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	352	—	—	1	uS/cm	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	228	—	—	1	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	180	—	—	1	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	220	—	—	1	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	213	—	—	1	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	200	—	—	1	ug/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	191	—	—	1	ug/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00983	0.133	0.497	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.169	0.12	0.478	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.276	0.125	0.486	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0981	0.141	0.491	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0277	0.051	0.18	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.6	—	—	1.33	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.2	—	—	0.665	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20	—	—	1.33	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.9	—	—	1.33	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.1	—	—	0.133	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	281	—	—	3.4	mg/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Units	Best value flag	Lab Qual	2nd Qual	Request	Sample	Lab
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	217	—	—	3.4	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	277	—	—	3.4	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	237	—	—	3.4	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	233	—	—	3.4	mg/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.24	—	—	0.33	mg/L	Y	—	NQ	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.12	—	—	0.33	mg/L	Y	—	NQ	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.34	—	—	0.33	mg/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.36	—	—	0.33	mg/L	Y	—	NQ	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.24	—	—	0.33	mg/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0409	—	—	0.02	mg/L	Y	J	J	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0683	—	—	0.017	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0457	—	—	0.017	mg/L	Y	J	U	12-1519	CALA-12-22832	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	49	56.6	193	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	124	50.5	159	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	207	53.1	154	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	184	59.6	192	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	281	46.8	126	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.09	—	—	0.067	ug/L	Y	—	NQ	2016-2135	CALA-16-124877	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.13	—	—	0.067	ug/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.05	—	—	0.067	ug/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.887	—	—	0.067	ug/L	Y	—	NQ	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.886	—	—	0.067	ug/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.878	—	—	0.067	ug/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.813	0.0417	0.0767	—	pCi/L	Y	—	NQ	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.871	0.0411	0.08	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.725	0.0588	0.0996	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.739	0.0415	0.0497	—	pCi/L	Y	—	J	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.755	0.0447	0.0682	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.023	0.00988	0.0735	—	pCi/L	Y	U	U	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0351	0.00965	0.0564	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00567	0.0127	0.0731	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0226	0.00895	0.0304	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0284	0.0105	0.044	—	pCi/L	Y	U	U	12-1519	CALA-12-22823	GELC
TA-53i	600	08/22/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.365	0.0281	0.0766	—	pCi/L	Y	—	NQ	2016-2135	CALA-16-124861	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.347	0.0262	0.0741	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.271	0.0376	0.0578	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.295	0.0262	0.0431	—	pCi/L	Y	—	J	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.306	0.0287	0.0346	—	pCi/L	Y	—	NQ	12-1519	CALA-12-22823	GELC