

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
0					(+0.6 - 2.3') Surface completion		(+0.6 - 2.3') 17 bags Note: 30" diameter concrete pad with 18" diameter lockable vault, King Kon-Crete 4000 PSI
1					(0.2 - 247.0') 2" PVC Sch 80 Casing		
2					(0.3 - 181.7') 2" PVC Sch 80 Casing		
3					(0.0 - 8.0') 12.0" Borehole		
4							
5					(1.5 - 14.0') Portland Cement 6% Bentonite Type I, II and V with Hydrogel		
6							
7					NR		
8							
9					(8.0 - 271.0') 10.0" Borehole	(1.5 - 14.0') 60.4 gallons	(1.5 - 14.0') 180 gallons (298%) Note: Grout seal. Used >20 % of the calculated volume due to potential voids forming during drilling and grout migration. Grout installed in lifts to reduce potential damage to the well from the heat of hydration.
10							
11					(14.0 - 100.0') Bentonite seal chips Puregold medium chips		
12							
13							
14							
15							
16							
17						(14.0 - 100.0') 59.9 bags	(14.0 - 100.0') 81 bags (135%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20 % of the calculated volume due to voids forming during drilling at approximately 17 ft. bgs.
18							
19							

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J - estimated value, NR = no recovery; Notes: solid blue and hollow blue water table marks represent depth to water (ft. bgs.) measured post development for the shallow well and deep well respectively; groundwater samples collected during drilling of MW-75d; installed in MW-75i

WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCK DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/06/20_18:05

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
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Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
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Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
20					(0.3 - 181.7') 2" PVC Sch 80 Casing		
21							
22							
23							
24							
25							
26							
27							
28							
29	MW-B-VAS-27-32 (7.7 J ppb) 1/6/2019 12:50		NR		(14.0 - 100.0') Bentonite seal chips Puregold medium chips	(14.0 - 100.0') 59.9 bags	(14.0 - 100.0') 81 bags (135%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20 % of the calculated volume due to voids forming during drilling at approximately 17 ft. bgs.
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

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Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
40					(0.3 - 181.7') 2" PVC Sch 80 Casing		
41							
42							
43							
44							
45							
46							
47							
48					(47.5 - 48.5') Centralizer		
49	MW-B-VAS-47-52 (<0.17 U ppb) 1/9/2019 10:15		NR		(14.0 - 100.0') Bentonite seal chips Puregold medium chips	(14.0 - 100.0') 59.9 bags	(14.0 - 100.0') 81 bags (135%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20 % of the calculated volume due to voids forming during drilling at approximately 17 ft. bgs.
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							

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WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCK DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/06/20_18:05

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Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
60					(0.3 - 181.7') 2" PVC Sch 80 Casing		
61							
62							
63							
64							
65							
66							
67							
68							
69	MW-B-VAS-67-72 (<0.17 U ppb) 1/9/2019 14:55		NR		(14.0 - 100.0') Bentonite seal chips Puregold medium chips	(14.0 - 100.0') 59.9 bags	(14.0 - 100.0') 81 bags (135%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20 % of the calculated volume due to voids forming during drilling at approximately 17 ft. bgs.
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							

Final - Revised 10/20

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WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCK DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/08/20_18:05

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
80					(0.3 - 181.7') 2" PVC Sch 80 Casing		
81							
82							
83							
84							
85							
86							
87							
88					(87.5 - 88.5') Centralizer		
89			NR		(14.0 - 100.0') Bentonite seal chips Puregold medium chips	(14.0 - 100.0') 59.9 bags	(14.0 - 100.0') 81 bags (135%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20 % of the calculated volume due to voids forming during drilling at approximately 17 ft. bgs.
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							

Final - Revised 01/20

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WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCK DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/06/20_18:05

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Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
100.0					(0.3 - 181.7') 2" PVC Sch 80 Casing	(0.2 - 247.0') 2" PVC Sch 80 Casing	(14.0 - 100.0') 59.9 bags
102.0							
104.0	MW-B-VAS-102-107 (<0.17 U ppb) 1/10/2019 13:00						
107.0							
110.0			NR		(100.0 - 175.0') Bentonite seal pellets Pel-Plug (TR30) 3/8"	(8.0 - 271.0') 10.0" Borehole	(100.0 - 175.0') 60.2 buckets
119.0							(100.0 - 175.0') 73 buckets (121%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20% of the calculated volume due to potential voids forming during drilling.

Final - Revised 10/20

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Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
120					(0.3 - 181.7') 2" PVC Sch 80 Casing		
121							
122							
123							
124							
125							
126							
127							
128					(127.5 - 128.5') Centralizer		
129			NR		(100.0 - 175.0') Bentonite seal pellets Pel-Plug (TR30) 3/8"	(100.0 - 175.0') 60.2 buckets	(100.0 - 175.0') 73 buckets (121%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20% of the calculated volume due to potential voids forming during drilling.
130							
131							
132							
133							
134							
135							
136							
137							
138							
139							

Final - Revised 01/20

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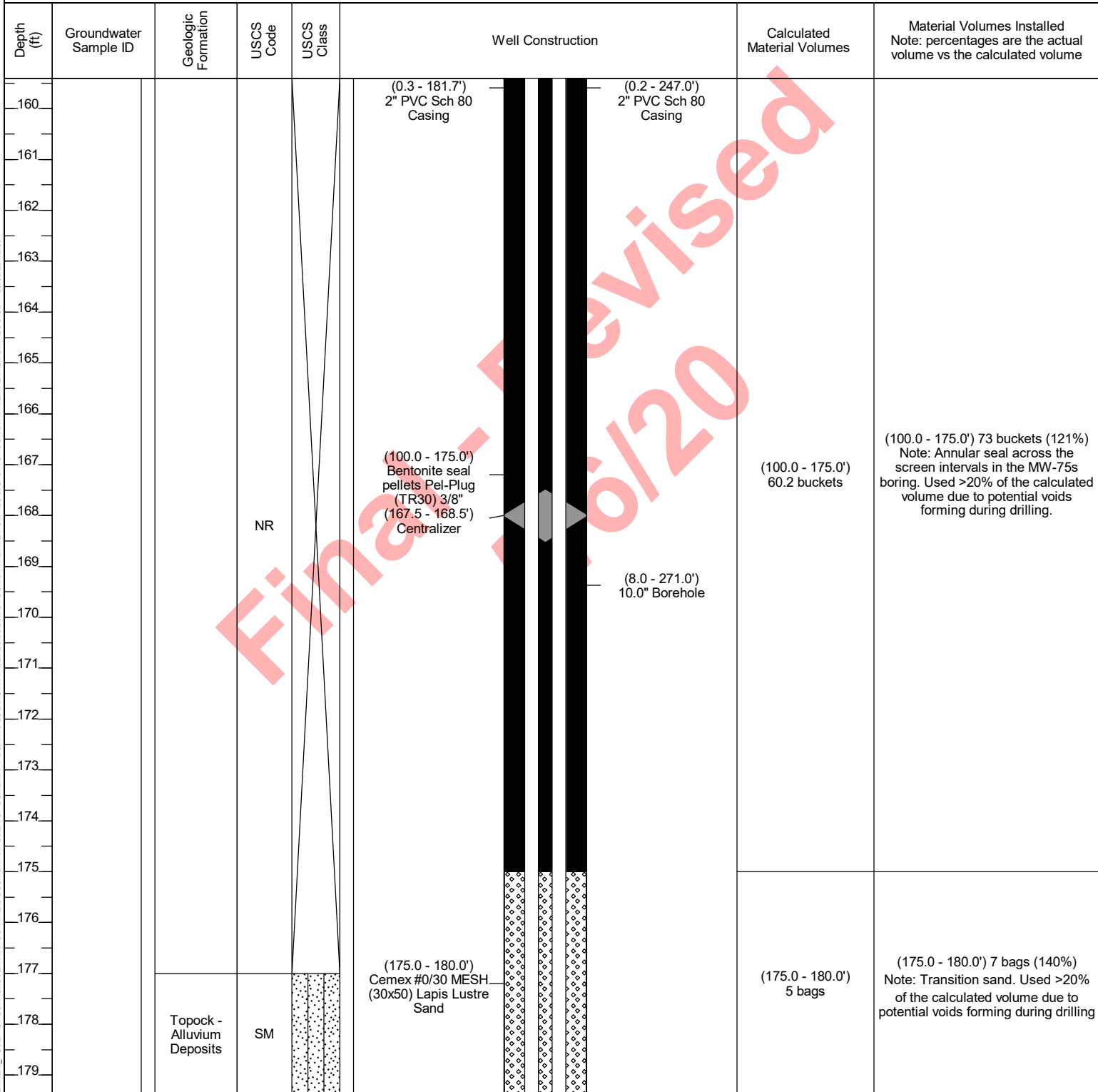
Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
140					(0.3 - 181.7') 2" PVC Sch 80 Casing		
141							
142							
143							
144	MW-B-VAS-142-147 (<0.17 U ppb) 1/15/2019 14:25						
145							
146							
147							
148							
149							
150			NR		(100.0 - 175.0') Bentonite seal pellets Pel-Plug (TR30) 3/8"	(100.0 - 175.0') 60.2 buckets	(100.0 - 175.0') 73 buckets (121%) Note: Annular seal across the screen intervals in the MW-75s boring. Used >20% of the calculated volume due to potential voids forming during drilling.
151							
152							
153							
154							
155							
156							
157							
158							
159							

Final - Revised 01/20

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WELL CONSTRUCTION DETAILS_PG&E_TOPOCK C:\USERS\SMC\GRANE\DOCUMENTS\PG&E_TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/08/20 18:05

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Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
180	MW-B-VAS-182-187 (<0.17 U ppb) 2/13/2019 10:30	Topock - Alluvium Deposits	SM		(0.3 - 181.7') 2" PVC Sch 80 Casing		
181							
182					(181.7 - 201.7') 2" Sch 80 PVC (20-slot) Screen		
183							
184							
185							
186							
187		Topock - Alluvium Deposits	ML				
188							
189							
190					(180.0 - 206.0') Cemex #3 MESH (8x10) Lapis Lustre Sand	(180.0 - 206.0') 30.5 bags	(180.0 - 206.0') 30 bags (98%) Note: Filter pack
191							
192		Topock - Alluvium Deposits	SM				
193							
194							
195							
196							
197							
198		Topock - Alluvium Deposits	SM				
199							

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200		Topock - Alluvium Deposits	SM		(181.7 - 201.7') 2" Sch 80 PVC (20-slot) Screen	(180.0 - 206.0') 30.5 bags	(180.0 - 206.0') 30 bags (98%) Note: Filter pack
201					(180.0 - 206.0') Cemex #3 MESH (8x10) Lapis Lustre Sand		
202					(203.0 - 204.0') Centralizer		
203					(201.7 - 204.0') Sump and SS End Cap		
204		Topock - Alluvium Deposits	ML				
205							
206		Topock - Alluvium Deposits	SM			(206.0 - 240.0') 28.5 buckets	(206.0 - 240.0') 34 buckets (119%) Note: Intermediate seal
207							
208							
209							
210	MW-B-VAS-207-212 (<0.17 U ppb) 2/14/2019 10:55				(8.0 - 271.0') 10.0" Borehole		
211							
212							
213					(206.0 - 240.0') Bentonite seal pellets Pel-Plug (TR30) 3/8"		
214							
215							
216							
217							
218							
219			SM				

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J - estimated value, NR = no recovery; Notes: solid blue and hollow blue water table marks represent depth to water (ft. bgs.) measured post development for the shallow well and deep well respectively; groundwater samples collected during drilling of MW-75d; installed in MW-75i

WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCK DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/06/20 18:05

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume			
220		Topock - Alluvium Deposits	SM		(0.2 - 247.0') 2" PVC Sch 80 Casing					
221										
222										
223										
224										
225		Topock - Alluvium Deposits	SM		(206.0 - 240.0') Bentonite seal pellets Pel-Plug (TR30) 3/8"					
226										
227										
228										
229								(8.0 - 271.0') 10.0" Borehole	(206.0 - 240.0') 28.5 buckets	(206.0 - 240.0') 34 buckets (119%) Note: Intermediate seal
230		Topock - Alluvium Deposits	SM							
231										
232										
233										
234										
235		Topock - Alluvium Deposits	SM							
236										
237								(236.5 - 237.5') Centralizer		
238										
239										

WELL CONSTRUCTION DETAILS_PG&E_TOPOCK_TOPOCKKDRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATA TEMPLATE FOR PLOG.GDT_05/06/20 18:05

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J - estimated value, NR = no recovery; Notes: solid blue and hollow blue water table marks represent depth to water (ft. bgs.) measured post development for the shallow well and deep well respectively; groundwater samples collected during drilling of MW-75d; installed in MW-75i

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
240			SM		(0.2 - 247.0') 2" PVC Sch 80 Casing	(206.0 - 240.0') 28.5 buckets	(206.0 - 240.0') 34 buckets (119%) Note: Intermediate seal
241		Topock - Alluvium Deposits	ML		(240.0 - 245.0') Cemex #0/30 MESH (30x50) Lapis Lustre Sand	(240.0 - 245.0') 5.2 bags	(240.0 - 245.0') 5 bags (96%) Note: Filter pack
242							
243							
244		Topock - Alluvium Deposits	SM				
245							
246							
247							
248		Topock - Alluvium Deposits	ML		(247.0 - 267.0') 2" Sch 80 PVC (20-slot) Screen		
249	MW-B-VAS-247-252 (<0.83 U ppb) 2/17/2019 11:25						
250					(8.0 - 271.0') 10.0" Borehole	(245.0 - 271.0') 27.3 bags	(245.0 - 271.0') 33 bags (121%) Note: Filter pack. Used >20% of the calculated volume due to potential voids forming during drilling.
251							
252					(245.0 - 271.0') Cemex #3 MESH (8x10) Lapis Lustre Sand		
253		Topock - Alluvium Deposits	SM				
254							
255							
256		Topock - Alluvium Deposits	ML				
257							
258							
259							

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J - estimated value, NR = no recovery; Notes: solid blue and hollow blue water table marks represent depth to water (ft. bgs.) measured post development for the shallow well and deep well respectively; groundwater samples collected during drilling of MW-75d; installed in MW-75i

WELL CONSTRUCTION DETAILS_PG&E_TOPOCK C:\USERS\SMCGRANE\DOCUMENTS\PG&E_TOPOCK\DATA\DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/08/20 18:05

Date Started: 09/25/2019	Surface Elevation: 472.68 ft amsl	Well ID: MW-75-202, MW-75-267
Date Completed: 01/11/2020	Shallow Well Elevation: 473.01 ft amsl	
Drilling Co.: Cascade	Deep Well Elevation: 472.88 ft amsl	Client: PG&E
Drilling Method: Sonic Drilling	Northing (NAD83): 2103736.26	Project: Final GW Remedy Phase 1
Driller Name: Eddie Ramos	Easting (NAD83): 7615559.66	Location: PG&E Topock, Needles, California
Drilling Asst: F. Sandoval/J. Candelaria	Borehole Diameter: 12 inches	
Logger: Grant Willford	Static Water Level: See Log for Depths	Project Number: RC000753.0051
Editor: Sean McGrane	Development End Date: 10/18/2019	
Total Depth: 271 ft bgs	Well Completion: <input checked="" type="checkbox"/> Flush <input type="checkbox"/> Stick-up <input type="checkbox"/> To Be Completed in Well Vault	

Depth (ft)	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Well Construction	Calculated Material Volumes	Material Volumes Installed Note: percentages are the actual volume vs the calculated volume
260		Topock - Alluvium Deposits	ML		(247.0 - 267.0') 2" Sch 80 PVC (20-slot) Screen		
261							
262							
263							
264							
265	MW-B-VAS-264-269 (<0.33 U ppb) 2/18/2019 14:00				(245.0 - 271.0') Cemex #3 MESH (8x10) Lapis Lustré Sand	(245.0 - 271.0') 27.3 bags	(245.0 - 271.0') 33 bags (121%) Note: Filter pack. Used >20% of the calculated volume due to potential voids forming during drilling.
266					(8.0 - 271.0') 10.0" Borehole		
267		Topock - Alluvium Deposits	ML				
268					(267.5 - 268.5') Centralizer		
269		Topock - Alluvium Deposits	SM				
270					(267.0 - 269.3') Sump and SS End Cap		
271							

End of Boring at 271.0 ft bgs.

272
273
274
275
276
277
278
279

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WELL CONSTRUCTION DETAILS_PG&E_TOPOCK C:\USERS\SMCGRANE\DOCUMENTS\PG&E_TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ_TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/08/20 18:05

Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
1							(0.0 - 177.0') No recovery (NR); Core not collected or logged, see MW-75d log for lithology		(0.0 - 266.0') No water used
2									
3									
4	0								
5									
6									
7									
8									
9							(8.0 - 117.0') Drilled with 8 inch core barrel and 10 inch casing.		
10		Sieve Samples Not Collected			NR				
11									
12									
13	0								
14									
15									
16									
17									
18									
19									
20									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started: 09/19/2019	Surface Elevation: 472.68 ft amsl	Boring No.: MW-75i
Date Completed: 09/24/2019	Northing (NAD83): 2103736.26	
Drilling Co.: Cascade	Easting (NAD83): 7615559.66	Client: PG&E
Drilling Method: Sonic Drilling	Total Depth: 271 ft bgs	Project: Final GW Remedy Phase 1
Drill Rig Type: Boart Longyear Track	Borehole Diameter: 12 inches	Location: PG&E Topock, Needles, California
Driller Name: Eddie Ramos	Depth to First Water: 23.7 ft bgs	
Drilling Asst: F. Sandoval/J. Candelaria	Sampling Method: 4 inch x 10 ft. Core Barrel	Project Number: RC000753.0051
Logger: Grant Willford	Sampling Interval: 177-271 ft bgs	
Editor: Sean McGrane	Converted to Well: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
21									
22									
23									
24									
25									
26									
27									
28									
29									
30		Sieve Samples Not Collected	MW-B-VAS-27-32 (7.7 J ppb) 1/6/2019 12:50		NR				
31									
32	0								
33									
34									
35									
36									
37									
38	0								
39									
40									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started: 09/19/2019	Surface Elevation: 472.68 ft amsl	Boring No.: MW-75i
Date Completed: 09/24/2019	Northing (NAD83): 2103736.26	
Drilling Co.: Cascade	Easting (NAD83): 7615559.66	Client: PG&E
Drilling Method: Sonic Drilling	Total Depth: 271 ft bgs	Project: Final GW Remedy Phase 1
Drill Rig Type: Boart Longyear Track	Borehole Diameter: 12 inches	Location: PG&E Topock, Needles, California
Driller Name: Eddie Ramos	Depth to First Water: 23.7 ft bgs	
Drilling Asst: F. Sandoval/J. Candelaria	Sampling Method: 4 inch x 10 ft. Core Barrel	Project Number: RC000753.0051
Logger: Grant Willford	Sampling Interval: 177-271 ft bgs	
Editor: Sean McGrane	Converted to Well: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
41									
42									
43									
44	0								
45									
46									
47									
48									
49			MW-B-VAS-47-52 (<0.17 U ppb) 1/9/2019 10:15		NR				
50		Sieve Samples Not Collected							
51									
52	0								
53									
54									
55									
56									
57									
58									
59	0								
60									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started: 09/19/2019	Surface Elevation: 472.68 ft amsl	Boring No.: MW-75i
Date Completed: 09/24/2019	Northing (NAD83): 2103736.26	
Drilling Co.: Cascade	Easting (NAD83): 7615559.66	Client: PG&E
Drilling Method: Sonic Drilling	Total Depth: 271 ft bgs	Project: Final GW Remedy Phase 1
Drill Rig Type: Boart Longyear Track	Borehole Diameter: 12 inches	Location: PG&E Topock, Needles, California
Driller Name: Eddie Ramos	Depth to First Water: 23.7 ft bgs	
Drilling Asst: F. Sandoval/J. Candelaria	Sampling Method: 4 inch x 10 ft. Core Barrel	Project Number: RC000753.0051
Logger: Grant Willford	Sampling Interval: 177-271 ft bgs	
Editor: Sean McGrane	Converted to Well: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
61									
62									
63									
64	0								
65									
66									
67									
68									
69			MW-B-VAS-67-72 (<0.17 U ppb) 1/9/2019 14:55		NR				
70		Sieve Samples Not Collected							
71									
72	0								
73									
74									
75									
76									
77									
78									
79									
80									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
81									
82									
83									
84									
85									
86									
87									
88									
89									
90		Sieve Samples Not Collected			NR				
91									
92	0								
93									
94									
95									
96									
97									
98									
99									
100									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
101									
102									
103									
104			MW-B-VAS-102-107 (<0.17 U ppb) 1/10/2019 13:00						
105									
106									
107									
108									
109									
110		Sieve Samples Not Collected			NR				
111									
112	0								
113									
114									
115									
116									
117									
118	0							(117.0 - 271.0') Switched to 6 inch tooling to pilot the hole before reaming with 10 inch.	
119									
120									

Final - Revised 5/6/20

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SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRIFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
121									
122									
123									
124	0								
125									
126									
127									
128									
129									
130		Sieve Samples Not Collected			NR				
131									
132	0								
133									
134									
135									
136									
137									
138	0								
139									
140									

Final - Revised 5/6/20

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J = estimated value, NR = no recovery; Notes: depth to water was measured during collection of groundwater quality parameters; groundwater samples collected during drilling of MW-75d; apparent partial recoveries can be the result of potential compaction of sediments in the core bag; wells MW-75-202, MW-75-267 installed in borehole

SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started: 09/19/2019	Surface Elevation: 472.68 ft amsl	Boring No.: MW-75i
Date Completed: 09/24/2019	Northing (NAD83): 2103736.26	
Drilling Co.: Cascade	Easting (NAD83): 7615559.66	Client: PG&E
Drilling Method: Sonic Drilling	Total Depth: 271 ft bgs	Project: Final GW Remedy Phase 1
Drill Rig Type: Boart Longyear Track	Borehole Diameter: 12 inches	Location: PG&E Topock, Needles, California
Driller Name: Eddie Ramos	Depth to First Water: 23.7 ft bgs	
Drilling Asst: F. Sandoval/J. Candelaria	Sampling Method: 4 inch x 10 ft. Core Barrel	Project Number: RC000753.0051
Logger: Grant Willford	Sampling Interval: 177-271 ft bgs	
Editor: Sean McGrane	Converted to Well: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
141									
142									
143	0								
144			MW-B-VAS-142-147 (<0.17 U ppb) 1/15/2019 14:25						
145									
146									
147									
148									
149									
150		Sieve Samples Not Collected			NR				
151									
152	0								
153									
154									
155									
156									
157									
158	0								
159									
160									

Final - Revised 5/6/20

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J = estimated value, NR = no recovery; Notes: depth to water was measured during collection of groundwater quality parameters; groundwater samples collected during drilling of MW-75d; apparent partial recoveries can be the result of potential compaction of sediments in the core bag; wells MW-75-202, MW-75-267 installed in borehole

SOIL BORING LOG: PG&E TOPOCK C:\USERS\SMCGRANE\DOCUMENTS\PG&E TOPOCK\DRAFT BORING LOGS\GINT FILES\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started: 09/19/2019	Surface Elevation: 472.68 ft amsl	Boring No.: MW-75i
Date Completed: 09/24/2019	Northing (NAD83): 2103736.26	
Drilling Co.: Cascade	Easting (NAD83): 7615559.66	Client: PG&E
Drilling Method: Sonic Drilling	Total Depth: 271 ft bgs	Project: Final GW Remedy Phase 1
Drill Rig Type: Boart Longyear Track	Borehole Diameter: 12 inches	Location: PG&E Topock, Needles, California
Driller Name: Eddie Ramos	Depth to First Water: 23.7 ft bgs	
Drilling Asst: F. Sandoval/J. Candelaria	Sampling Method: 4 inch x 10 ft. Core Barrel	Project Number: RC000753.0051
Logger: Grant Willford	Sampling Interval: 177-271 ft bgs	
Editor: Sean McGrane	Converted to Well: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
161									
162									
163									
164	0								
165									
166									
167									
168									
169									
170									
171									
172	0								
173									
174									
175									
176									
177									
178									
179	120								
180									

Final - Revised 5/6/20

Sieve Samples Not Collected

NR

Topock - Alluvium Deposits

SM

(177.0 - 187.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); reddish brown / moderate brown (5YR 4/4) some light red (2.5YR 6/8); very fine grained to very coarse grained, angular to subround; little granules to medium pebbles, angular to subangular; little silt; little clay; wet to moist; mottled; weak cementation; iron oxide staining

(177.0 - 187.0') Normal drilling

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J = estimated value, NR = no recovery; Notes: depth to water was measured during collection of groundwater quality parameters; groundwater samples collected during drilling of MW-75d; apparent partial recoveries can be the result of potential compaction of sediments in the core bag; wells MW-75-202, MW-75-267 installed in borehole

SOIL BORING LOG: PG&E TOPOCK C:\USERS\MCGRANE\DOCUMENTS\PG&E TOPOCK\DRIFT BORING LOGS\05.06.20\TOPOCK DATABASE FOR PLOG.GPJ TOPOCK DATA TEMPLATE FOR PLOG.GDT 05/06/20 18:09

Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
181									
182									
183	120		MW-B-VAS-182-187 (<0.17 U ppb) 2/13/2019 10:30	Topock - Alluvium Deposits	SM				
184									
185									
186									
187									
188				Topock - Alluvium Deposits	ML		(187.0 - 188.0') Topock - Alluvium Deposits; Sandy silt (ML); grayish brown (10YR 5/2); low plasticity; and very fine to medium grained sand, angular to subround; little granules to small pebbles, angular to subangular; little clay; moist; medium stiff; moderate cementation	(187.0 - 197.0') Slightly rough drilling	
189							(188.0 - 197.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); reddish brown (5YR 5/4); very fine grained to coarse grained, angular to subround; little granules to large pebbles, angular to subangular; little silt; little clay; wet to moist; moderate cementation		
190		Sieve Samples Not Collected							
191									
192	120			Topock - Alluvium Deposits	SM				
193									
194							(194'); weak cementation/looser material		
195									
196									
197									
198	120			Topock - Alluvium Deposits	SM		(197.0 - 205.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); brown (7.5YR 5/4) some light greenish gray (GLE Y1 7/1); very fine grained to very coarse grained, angular to subround; little granules to very large pebbles, angular to subangular; little silt; little clay; trace small cobbles, angular; moist to dry; mottled; iron oxide staining	(197.0 - 207.0') Very rough drilling	
199									
200									

Final Revised

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Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
201	120			Topock - Alluvium Deposits	SM				
202									
203									
204									
205									
206				Topock - Alluvium Deposits	ML		(205.0 - 207.0') Topock - Alluvium Deposits; Sandy silt (ML); very pale brown / grayish orange (10YR 7/4); no plasticity; and very fine to medium grained sand, angular to subround; little clay; trace granules to medium pebbles, angular to subangular; dry; soft		
207				Topock - Alluvium Deposits	SM		(207.0 - 219.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); brown (7.5YR 5/4) little light greenish gray (GLE Y1 7/1); very fine grained to very coarse grained, angular to subround; little granules to large pebbles, angular to subround; little silt; little clay; moist to wet; weak cementation; some mottling	(207.0 - 217.0') Normal drilling	
208									
209									
210									
211									
212	120								
213									
214									
215									
216									
217									
218								(217.0 - 227.0') Soft drilling	
219	120								
220				Topock - Alluvium Deposits	SM		(219.0 - 225.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); brown (7.5YR 5/4); very fine grained to very coarse grained, angular to subround; some granules to very large pebbles, angular		

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Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid		
221				Topock - Alluvium Deposits	SM	[Soil Core Representation]	to subangular; little silt; trace small cobbles, angular to subangular; trace clay; wet; weak cementation; iron oxide staining; granules and pebbles mostly composed of metadiorite				
222											
223	120										
224											
225				Topock - Alluvium Deposits	SM	[Soil Core Representation]	(225.0 - 234.0') Topock - Alluvium Deposits; Silty sand (SM); brown (7.5YR 4/4); very fine grained to very coarse grained, angular to subround; little granules to medium pebbles, angular to subangular; little silt; little clay; wet				
226											
227										(227.0 - 237.0') Soft drilling	
228											
229				Topock - Alluvium Deposits	SM	[Soil Core Representation]					
230		Sieve Samples Not Collected									
231											
232	120										
233				Topock - Alluvium Deposits	SM	[Soil Core Representation]					
234											
235										(234.0 - 240.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); reddish brown (5YR 5/4); very fine grained to very coarse grained, angular to subround; little granules to large pebbles, angular to subangular; little silt; trace clay; wet	
236											
237				Topock - Alluvium Deposits	SM	[Soil Core Representation]					
238										(237.0 - 247.0') Soft drilling	
239	120										
240											

Final Revised 5/6/20

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Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid
241	120			Topock - Alluvium Deposits	ML		(240.0 - 244.0') Topock - Alluvium Deposits; Sandy silt with gravel (ML); reddish brown (5YR 5/4); low plasticity; and very fine to very coarse grained sand, angular to subround; little granules to large pebbles, angular to subangular; trace clay; moist; stiff; moderate cementation		
242							Topock - Alluvium Deposits		
243				Topock - Alluvium Deposits	ML				
244							Topock - Alluvium Deposits		
245	120	Sieve Samples Not Collected	MW-B-VAS-247-252 (<0.83 U ppb) 2/17/2019 11:25	Topock - Alluvium Deposits	ML			(247.0 - 257.0') Normal drilling	
246							Topock - Alluvium Deposits		
247				Topock - Alluvium Deposits	ML				
248							Topock - Alluvium Deposits		
249	168			Topock - Alluvium Deposits	ML				
250							Topock - Alluvium Deposits		SM
251				Topock - Alluvium Deposits	ML				
252							Topock - Alluvium Deposits		SM
253	Topock - Alluvium Deposits	ML							
254					Topock - Alluvium Deposits	SM			
255	Topock - Alluvium Deposits	ML							
256					Topock - Alluvium Deposits	SM			
257	Topock - Alluvium Deposits	ML							
258					Topock - Alluvium Deposits	SM			
259	Topock - Alluvium Deposits	ML							
260					Topock - Alluvium Deposits	SM			

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Date Started:	09/19/2019	Surface Elevation:	472.68 ft amsl	Boring No.: MW-75i	
Date Completed:	09/24/2019	Northing (NAD83):	2103736.26		
Drilling Co.:	Cascade	Easting (NAD83):	7615559.66	Client:	PG&E
Drilling Method:	Sonic Drilling	Total Depth:	271 ft bgs	Project:	Final GW Remedy Phase 1
Drill Rig Type:	Boart Longyear Track	Borehole Diameter:	12 inches	Location:	PG&E Topock, Needles, California
Driller Name:	Eddie Ramos	Depth to First Water:	23.7 ft bgs		
Drilling Asst:	F. Sandoval/J. Candelaria	Sampling Method:	4 inch x 10 ft. Core Barrel	Project Number:	RC000753.0051
Logger:	Grant Willford	Sampling Interval:	177-271 ft bgs		
Editor:	Sean McGrane	Converted to Well:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Depth (ft)	Recovery (in)	Sieve Sample ID	Groundwater Sample ID	Geologic Formation	USCS Code	USCS Class	Soil Description	Drilling Notes	Drilling Fluid					
261	168	Sieve Samples Not Collected	MW-B-VAS-264-269 (<0.33 U ppb) 2/18/2019 14:00	Topock - Alluvium Deposits	ML		(265'); slightly moist	(267.0 - 271.0') Extremely rough/hard drilling conditions.	(266.0 - 271.0') gallons of water used; gallons of water recovered; gallons of water lost					
262							(266'); dry							
263				Topock - Alluvium Deposits	ML		(267.0 - 268.0') Topock - Alluvium Deposits; Sandy silt (ML); brown (7.5YR 4/4) little reddish brown (5YR 5/4); no plasticity; and very fine to coarse grained sand, angular to subround; little granules to medium pebbles, angular to subangular; little clay; dry; soft; weak cementation							
264														
265				Topock - Alluvium Deposits	SM		(268.0 - 271.0') Topock - Alluvium Deposits; Silty sand with gravel (SM); yellowish red / light brown (5YR 5/6) some red / moderate reddish brown (10R 4/6); angular to subround; little small to large pebbles, angular to subangular; little silt; little clay; dry; strong cementation; iron oxide staining; some red staining on pebbles							
266														
267				End of Boring at 271.0 ft bgs.										
268														
269														
270														
271														
272														
273														
274														
275														
276														
277														
278														
279														
280														

Abbreviations: USCS = Unified Soil Classification System, ft = feet, bgs = below ground surface, amsl = above mean sea level, GW = groundwater, ppb = parts per billion, U = not detected above the laboratory reporting limit, J = estimated value, NR = no recovery; Notes: depth to water was measured during collection of groundwater quality parameters; groundwater samples collected during drilling of MW-75d; apparent partial recoveries can be the result of potential compaction of sediments in the core bag; wells MW-75-202, MW-75-267 installed in borehole

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