

**Disadvantaged Community Involvement Program**  
**Tulare-Kern Funding Area**  
**Project Application Form**

1. IRWM Region: 

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2. Funding Area: 

Tulare-Kern Funding Area
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3. Applicant Name: 

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4. Project Title: 

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5. Requested Grant Amount: 

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6. Point of Contact: (POC) Information (name, title, organization, phone, email):  

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7. Type of Funding Requested (Select One):  
☐ IRWM Application Costs (for projects that are ready for Round One (2019) IRWM Implementation funding)  
☐ Project Development Activities (feasibility study, preliminary design, CEQA, etc.) to prepare for Round Two (future) IRWM Implementation funding
8. Is the Applicant identified as a Disadvantaged Community (DAC) in the Preliminary Needs Assessment?  
☐ Yes   ☐ No     *If not, provide justification for DAC status.*
9. Does the project address one or more of the following issues for a DAC?

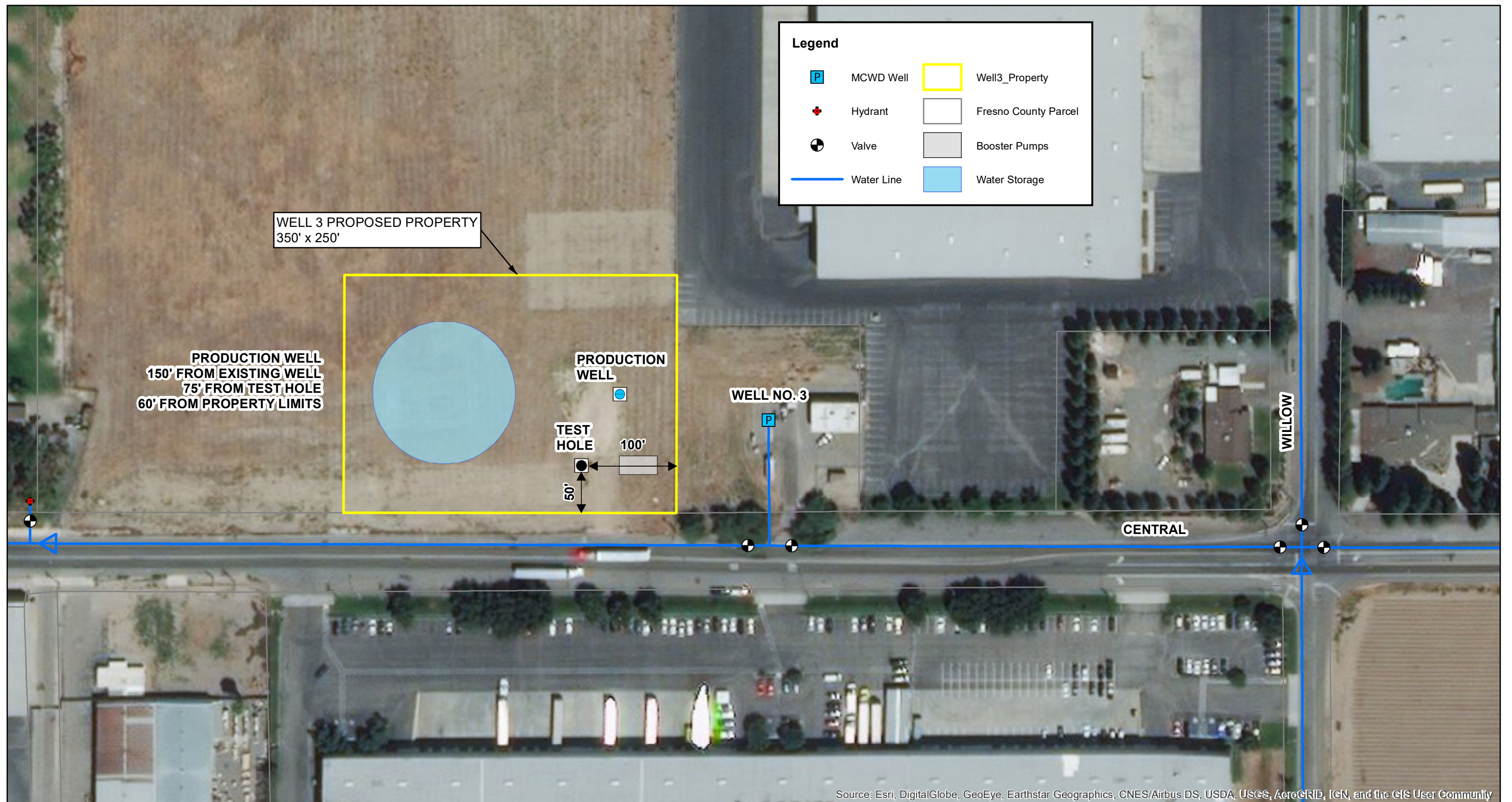
Project Title	Benefits 100% to DAC?	Human Right to Water?	Innovative Technology?	Contribute to regional water self-reliance?	Address AB 1249 Contaminants(s)?

**A. PROJECT INFORMATION**

1. Project Summary: Provide a brief description of the project, the need(s) it addresses, and the intended outcomes/benefits. The project may include a feasibility study, community outreach, preliminary design, environmental review, or other activities. The project may also include IRWM application costs.

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2. Provide project map. Include location of project, project benefit and/or service area, and other applicable information.



0 50 100 Feet



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**PROVOST & PRITCHARD**  
CONSULTING GROUP  
An Employee Owned Company

286 W. Cromwell Ave.  
Fresno, CA 93711-6162  
(559) 449-2700

Malaga County Water District  
Capital Improvement Plan  
Water Department

3. Project Type: \_\_\_\_\_ Water Supply or Quality \_\_\_\_\_ Sewer or Wastewater

Other:

*Select most applicable project type. If "Other" is selected, please write in the space provided the proposed project type.*

4. If the project will affect groundwater, does the project have support of the local Groundwater Sustainability Agency? \_\_\_\_\_ Yes \_\_\_\_\_ No

Provide a letter of support from the GSA, if available, or other form of correspondence with the GSA regarding the proposed project.

#### **B. SELECTED ELIGIBILITY REQUIREMENTS**

1. Does the project directly respond to water management need(s) of DACs in the Funding Area, as identified in the Preliminary Needs Assessment? \_\_\_\_\_ Yes \_\_\_\_\_ No

a. What DAC need(s) does the project address? Identify and explain.

2. Does the project benefit a small (<10,000 population) DAC? \_\_\_\_\_ Yes \_\_\_\_\_ No

Community	Population	MHI (include source)

3. Does the project provide a benefit that meets at least one of the Statewide Priorities as defined in the 2016 IRWM Grant Program Guidelines?

☐ Yes ☐ No If Yes, Please identify below.





#### **D. OTHER PROJECT INFORMATION**

1. Does the proposed project benefit multiple DACs? ☐ Yes ☐ No

If Yes, provide a description of the impacts to the various DACs.

2. Does the project address a contaminant listed in AB 1249? ☐ Yes ☐ No

If yes, provide a description of how the project helps address the contamination.

3. Does the project improve the provision of safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes, consistent with AB 685 (Human Right to Water)? ☐ Yes ☐ No

If yes, please describe.

#### **E. ENVIRONMENTAL**

1. Please fill out the Table below, if applicable:

Table 3 – CEQA Timeline		
CEQA STEP	COMPLETE? (Y/N)	ESTIMATED DATE TO COMPLETE
Initial Study		
Lead Agency (_____)		
Notice of Preparation		
Draft EIR/MND/ND		
Public Review		
Final EIR/MND/ND		
Adoption of Final EIR/MND/ND		
Notice of Determination		

- a. If additional explanation or justification of the timeline is needed, please describe below (optional).

**F. CONSULTANT SELECTION**

1. Does the Applicant have a District Engineer or other Engineering Consultant with history working on the design or evaluation of its facilities, which is preferred to perform the scope of work identified herein?

If yes, provide contact information (Name, Title, Organization, Phone, Email)

*Note: The preferred consultant, if noted, will be contacted regarding this project. If the consultant and the County of Tulare are able to come to agreement, a contract between the County and consultant may be initiated. While applicant preferences will be taken into account, the County of Tulare does not commit to retaining the services of the preferred consultant.*

2. If the Applicant does not have a preferred consultant, a consultant may be recommended by the respective IRWM, or work may be conducted by the Project Team. Any recommended consultants would require pre-approval from the County of Tulare, and would be required to enter into a contract with the County of Tulare.

KENNETH D. SCHMIDT AND ASSOCIATES

GROUNDWATER QUALITY CONSULTANTS

600 WEST SHAW AVE., SUITE 250

FRESNO, CALIFORNIA 93704

TELEPHONE (559) 224-4412

August 3, 2016

Mr. Ron Yamabe  
Yamabe & Horn Engr., Inc.  
2985 N. Burl  
Suite 101  
Fresno, CA 93727

Re: Malaga TW-3

Dear Ron:

During June 23-July 7, 2016, Johnson Drilling Co. of Reedley completed the test well to a depth of 700 feet. We logged the drill cuttings and a geologic log is attached. The deposits were primarily brown in color, except from 569 to 601 feet in depth, where black deposits were present. Fine-grained strata that could function as confining beds are present in the following intervals below a depth of 260 feet:

275 to 295 feet	535 to 545 feet
410 to 444 feet	601 to 612 feet.

Depth to water ranged from 50 to 87 feet at the time of drilling. Water samples were collected from 12 different depth intervals. At three of these intervals (280 to 285 feet, 443 to 448 feet, and 635 to 640 feet in depth), a submersible pump was installed and pumped water samples were also collected for more comprehensive analyses. The water samples were preserved and hand delivered to APPL, Inc. in Clovis for analyses of inorganic and trace organic constituents. Samples for radiological analyses were preserved and shipped to FGL environmental in Santa Paula.

Total dissolved solids (TDS) concentrations ranged from 166 to 463 mg/l. TDS concentration were less than 300 mg/l below a depth of 440 feet. Nitrate concentrations generally decreased with increasing depth. The shallowest sample (175 to 180 feet) had a nitrate concentration of 47 mg/l, exceeding the MCL of 45 mg/l. The nitrate concentration was 45 mg/l in the sample from 346 to 351 feet in depth. Nitrate concentrations in the other

# KENNETH D. SCHMIDT AND ASSOCIATES

GROUNDWATER QUALITY CONSULTANTS

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samples ranged from 9 to 42 mg/l, less than the MCL. Nitrate concentrations were less than 12 mg/l in samples from below a depth of 490 feet. The iron concentration in the deepest pumped sample (635 to 640 feet in depth) was 0.8 mg/l, exceeding the recommended MCL of 0.3 mg/l. Manganese concentrations ranged from 0.07 to 1.31 mg/l, exceeding the recommended MCL of 0.05 mg/l, in four samples from above a depth of 360 feet. Manganese concentrations were less than the MCL of 0.05 mg/l in samples from below a depth of 360 feet. Arsenic and hexavalent chromium concentrations were well below the MCL of 10 ppb for both constituents. An alpha activities of 20 picocuries per liter, exceeding the MCL of 15 picocuries per liter, was present in the shallowest sample (175 to 180 feet in depth). Alpha activities in samples from below a depth of 225 feet ranged from less than 1 to 10 picocuries per liter, less than the MCL. DBCP concentrations exceeded 0.01 ppb in all samples from above a depth of 400 feet, but concentrations were below the MCL of 0.2 ppb. DBCP concentrations in samples from below a depth of 440 feet were 0.01 ppb or less. EDB and 1,2,3-TCP concentrations were non-detectable in all of the samples.

A new well can be constructed at the site. I recommend not tapping strata below a depth of 635 feet, because of the high iron concentration. Blank casing would be installed from the surface to a depth of 445 feet and from 625 to 645 feet in depth. Louvered casing would be installed from 445 to 625 feet in depth. Gravel would be placed from 645 feet in depth up to a depth of 425 feet. A gravel feed tube would be installed from 430 feet to the surface. An annular seal would be placed from 425 feet to the surface. Sieve analyses of fine sands by the Roscoe Moss Co. indicate that a slot size of 0.06 inch and gravel gradation of 8x16 should be used. Such a well would tap about 120 feet of coarse-grained water producing deposits. A properly constructed and developed well should produce about 1,500 gpm.

Please call if you have any questions.

Sincerely Yours,



Kenneth D. Schmidt

KDS/td



MALAGA CWD TESTWELL #3 WATER QUALITY TABLE

Depth Interval (feet)	Fe (mg/l)	Mn (mg/l)	As (ppb)	NO <sub>3</sub> (mg/l)	Cr <sup>6+</sup> (ppb)	EC (umhos/cm)	TDS (mg/l)	pH	DBCP (ppb)	EDB (ppb)	1,2,3 TCP (ppt)	Gross Alpha (pci/l)
175-180 A	<0.03	1.310	1.1	47	<0.5	696	463	8.2	0.14	<0.01	<5	20
228-232 A	<0.03	0.255	1.2	22	1.0	498	317	8.1	0.02	<0.01	<5	3.9
280-285 A	<0.03	0.072	1.0	37	<0.5	509	344	8.1	0.02	<0.01	<5	3.9
280-285 P	<0.03	0.015	1.1	34	<0.5	481	323	7.8	0.03	<0.01	<5	3.5
346-351 A	<0.03	0.094	0.5	45	<0.5	616	413	8.2	0.03	<0.01	<5	10.2
393-398 A	<0.03	0.019	0.5	42	<0.5	497	303	8.1	0.02	<0.01	<5	2.7
443-448 A	<0.03	0.041	<0.5	40	<0.5	445	287	8.1	<0.01	<0.01	<5	0.8
443-448 P	0.04	0.018	0.7	39	<0.5	446	270	8.0	0.01	<0.01	<5	1.2
493-498 A	<0.03	0.010	1.0	11	<0.5	269	166	8.2	<0.01	<0.01	<5	0.2
545-550 A	<0.03	0.011	1.1	11	0.57	277	178	8.2	<0.01	<0.01	<5	1.2
573-578 A	<0.03	0.014	2.2	10	3.0	285	185	8.3	<0.01	<0.01	<5	0.7
612-615 A	<0.03	0.017	2.1	9	2.4	290	196	8.3	<0.01	<0.01	<5	0.2
635-640 A	<0.03	0.009	2.5	9	3.4	292	197	8.2	<0.01	<0.01	<5	0.4
635-640 P	0.79	0.024	2.0	9	<0.5	289	194	8.1	<0.01	<0.01	<5	1.0
688-693 A	<0.03	0.010	1.2	10	0.8	312	213	8.2	<0.01	<0.01	<5	1.2

GEOLOGIC LOG FOR MALAGA COUNTY  
WATER DISTRICT TESTWELL 3

Depth (feet)	Description
0 - 3	Brown silty top soil
3 - 12	Brown silty and sandy clay
12 - 30	Brown clayey fine sand
30 - 58	Light brown silty fine sand
58 - 96	Brown sandy clay
96 - 109	Light brown silty fine sand
109 - 121	Brown fine sand and gravel
121 - 168	Brown silty fine sand
168 - 174	Brown fine sand
174 - 178	Gray clay
178 - 208	Brown silty fine sand
208 - 212	Brown clay
212 - 215	Brown very fine sand
215 - 220	Brown sandy clay
220 - 228	Brown clay
228 - 232	Brown fine sand
232 - 265	Brown silty fine sand
265 - 275	Brown fine to medium sand
275 - 280	Brown clay
280 - 290	Brown fine sand
290 - 295	Brown clay
295 - 305	Brown fine sand
305 - 323	Red-brown silty fine sand
323 - 330	Red-brown clayey sand
330 - 343	Red-brown fine sand with cemented layers
343 - 346	Red-brown cemented fine sand
346 - 353	Red-brown fine to coarse sand and gravel
353 - 357	Red-brown sandy clay
357 - 365	Red-brown medium to coarse sand and gravel
365 - 368	Red-brown clay
368 - 385	Red-brown medium to coarse sand
385 - 393	Red-brown clay
393 - 410	Gray fine to medium sand
410 - 420	Red-brown indurated clay
420 - 440	Red-brown indurated clay with sand lenses
440 - 444	Brown clay
444 - 452	Red-brown fine to medium sand

Continued:

GEOLOGIC LOG FOR MALAGA COUNTY  
WATER DISTRICT TESTWELL 3  
(Continued:)

Depth (feet)	Description
452 - 458	Red-brown sandy clay
458 - 467	Red-brown fine to medium sand
467 - 489	Red-brown indurated clay with sand lenses
489 - 493	Red-brown clay
493 - 499	Red-brown medium to coarse sand and gravel
499 - 515	Red-brown clayey coarse sand
515 - 535	Red-brown cemented fine sand
535 - 545	Brown indurated clay
545 - 560	Red-brown medium to coarse sand and gravel
560 - 569	Red-brown cemented fine to medium sand
569 - 573	Black cemented fine to medium sand
573 - 585	Black medium to coarse sand and gravel
585 - 594	Black medium to coarse sand
594 - 601	Black medium to coarse sand and gravel
601 - 612	Gray-brown clay
612 - 618	Brown and black cemented fine to medium sand
618 - 625	Brown medium to coarse sand
625 - 633	Light brown and white clay
633 - 635	Brown clay
635 - 641	Gray fine to medium sand
641 - 651	Brown fine to medium sand and clay lenses
651 - 660	Brown clay
660 - 681	Brown fine to coarse sand
681 - 688	Light brown and white clay
688 - 692	Red-brown fine to medium sand
692 - 700	Light brown clay