



**ARIZONA DEPARTMENT of WATER RESOURCES**  
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## **Underground Storage Facility Application Checklist**

### **GENERAL INFORMATION/COMPLETING THE APPLICATION FORM**

One original and one copy of the USF permit application form.

One original and two copies of the USF permit application report (supporting evidence).  
One electronic copy is strongly encouraged.

\$2,000 initial fee.

Notarized signature by the applicant or their authorized agent on the application certification page.

If the application is for a USF that will be designated as a managed underground storage facility that could add value to a national park, national monument, or state park pursuant to ARS 45-811.01 (D), has the applicant provided a completed USF Permit Application Supplement.

### **USF SITE AND FACILITY CHARACTERISTICS**

Does the application report contain an executive summary? (See USF Application Guidelines Section III.A)

Does the application report contain a narrative description of the physical characteristics of the USF site? (See USF Application Guidelines Section III.B.1.a)

Does the application report contain a regional map? (See USF Application Guidelines Section III.B.1.b)

Does the application report contain a local site map (within one mile of the USF)? (See USF Application Guidelines Section III.B.1.c)

Does the application report contain a table of proposed and existing water level monitor wells and piezometers? (See USF Application Guidelines Section III.B.2.a.i)

Does the application report contain schematics for new/proposed wells (monitor wells and piezometers) and/or as-built diagrams for existing wells? (See USF Application Guidelines Section III.B.2.a.i)

Does the application report contain a table of proposed recharge wells with proposed construction details? (See USF Application Guidelines Section III.B.2.a.i)

Does the application report contain schematics for proposed recharge wells and/or as-built diagrams for existing recharge wells? (See USF Application Guidelines Section III.B.2.a.i)

Does the application report contain a table of proposed recharge basins with proposed construction details? (See USF Application Guidelines Section III.B.2.a.ii)

Does the application report contain a table of proposed recharge trenches with proposed construction details? (See USF Application Guidelines Section III.B.2.a.iii)

Does the application report contain design schematics or as-built drawings for recharge basins? (See USF Application Guidelines Section III.B.2.a.ii)

Does the application report contain design schematics or as-built drawings of trenches? (See USF Application Guidelines Section III.B.2.a.iii)

Does the application report contain a description of managed and constructed in-channel recharge components? (See USF Application Guidelines Section III.B.2.a.iv)

If the USF site will be a multiple use project, does the application report include a description of the multiple use (non-recharge) design components of the USF site? (See USF Application Guidelines Section III.B.2.b)

Does the application report include a description of the source water and delivery system? (See USF Application Guidelines Section III.B.2.c)

Does the application report contain a facility map of appropriate scale (aerial photo, schematic map, other)? (See USF Application Guidelines Section III.B.2.d)

Does the application report contain a description and table of all design contingencies? (See USF Application Guidelines Section III.B.2.e)

Does the application report contain a description of the geologic characteristics of the USF site? (See USF Application Guidelines Section III.B.3)

Does the application report contain a hydrogeologic description of the aquifer characteristics at the site of the USF site? (See USF Application Guidelines Section III.B.4.a)

Does the application report contain a description of the vadose zone at the site of the proposed USF? (See USF Application Guidelines Section III.B.4.b)

Does the application report contain a description and map of current water levels within the maximum area of impact of the proposed USF site? (See USF Application Guidelines Section III.B.4.c)

Does the application report contain a description of current and historic water level changes within the maximum area of impact of the proposed USF site? (See USF Application Guidelines Section III.B.4.d)

### **UNREASONABLE HARM AND HYDROLOGIC FEASIBILITY ANALYSIS**

Does the application report contain a one-foot water level rise map, which also includes the inventory of structures, land uses, conditions, and facilities? (See USF Application Guidelines Section III.C.1.b)

Does the application report contain a narrative supporting the maximum area of impact and mounding analysis? (See USF Application Guidelines Section III.C.1.c)

Does the application report contain a narrative describing any changes made to the model (aquifer parameters, pumping data, etc.)?

Does the application report contain a table of the yearly simulated recharge for all USFs?

Does the application report contain a map of the simulated water level elevations and measured water level elevations at the end of the calibration period (beginning of the recharge simulation)?

Does the application report contain a map of the simulated depth-to-water and measured depth-to-water at the end of the calibration period (beginning of recharge simulation)?

Does the application report contain a map with depth-to-water at the end of the recharge simulation, which also includes the inventory of structures, land uses, conditions, and facilities?

Does the application report contain a water level elevation map at the end of the recharge simulation, which also includes the inventory of structures, land uses, conditions, and facilities?

Does the application report contain hydrographs with measured and simulated water levels?

Does the application report contain a map of current water levels? (See USF Application Guidelines Section III.B.4.c.)

Does the application report contain a digital copy of model input and output files?

Does the application report contain a GIS shapefile of the maximum area of impact?

Does the application report contain an inventory of wells? (See USF Application Guidelines Section III.C.2.a)

Does the application report contain an inventory of structures, land uses, conditions, and facilities? (See USF Application Guidelines Section III.C.2.b)

Does the application report contain a description of the methods used to identify structures, land uses, conditions, facilities, and water users? (See USF Application Guidelines Section III.C.2.c)

If the USF site requires an Aquifer Protection Permit (APP) from ADEQ, does the application report contain either a signed APP or evidence that an application for an APP has been filed? (See USF Application Guidelines Section III.C.3)

If the USF site does not require an Aquifer Protection Permit (APP) from ADEQ, does the application report contain documentation of the ambient groundwater quality of the receiving aquifer? (See USF Application Guidelines Section III.C.3)

Does the application report contain a summary of the unreasonable harm analysis? (See USF Application Guidelines Section III.C.4)

Does the application report contain a summary of the hydrologic feasibility conclusions? (See USF Application Guidelines Section III.C.5)

## **MONITORING PLAN**

Does the application report contain a monitoring plan? (See USF Application Guidelines Section III.C.6.a,f)

Does the application report contain a table of proposed water level ALs and OPLs? (See USF Application Guidelines Section III.C.6.c)

Does the application report contain a narrative discussing the proposed water level ALs and OPLs? (See USF Application Guidelines Section III.C.6.c)

Does the application report contain a table of all proposed source water and groundwater quality monitor points? (See USF Application Guidelines Section III.C.6.b)

Does the application report contain a table of proposed source water and groundwater quality ALs and OPLs? (See USF Application Guidelines Section III.C.6.b)

Does the application report contain a narrative discussing the proposed source water and groundwater quality ALs and OPLs? (See USF Application Guidelines Section III.C.6.c)

Does the application report contain a narrative to justify the proposed monitoring plan? (See USF Application Guidelines Section III.C.6.d)

Does the application report contain a table of proposed water quantity monitoring points? (See USF Application Guidelines Section III.C.6.e)

Does the application report contain a narrative discussing the proposed water quantity monitoring plan? (See USF Application Guidelines Section III.C.6.e)

Does the application report contain manufacturer's specification sheet(s) and/or a narrative for each measurement device and methodology? (See USF Application Guidelines Section III.C.6.e)

Does the application report contain an operation and maintenance plan for the proposed USF site? (See USF Application Guidelines Section III.C.7.a)

Does the application report contain a description of how all physical losses (evaporation, transpiration, other losses) will be calculated? (See USF Application Guidelines Section III.C.7.b)

## **TECHNICAL CAPABILITY**

Does the application report contain the name and address of the person principally responsible for overseeing the construction and operation of the USF site? (Section III.D.7)

Does the application report contain documentation to demonstrate the applicant's technical capability to construct and operate the proposed USF site? (Section III.D.7)

Does the application report contain proof of pertinent licenses or certifications of the principal operator? (Section III.D.7)

Does the application report contain a narrative, resume, biography, etc. describing the principal operator's professional expertise? (Section III.D.7)

## **FINANCIAL CAPABILITY**

Does the application report contain a statement of estimated total cost for the USF? (Section III.E.1)

Does the application report contain evidence for meeting costs as a public or private entity? (Section III.E.2 and 3)

## **LEGAL ACCESS**

Does the application report contain evidence that the applicant has legal access to the proposed USF site or has the exclusive right to acquire legal access to the USF site? (Section III.F)