

**U.S. GEOLOGICAL SURVEY – NATIONAL WATER QUALITY LABORATORY  
ANALYTICAL SERVICES REQUEST**

**THIS SECTION MANDATORY FOR SAMPLE LOGIN**

NWIS RECORD NUMBER			LAB USE ONLY
SAMPLE TRACKING ID	User Code	Project Account	NWQL LABORATORY ID

	2 0				
STATION ID	Begin Date (YYYYMMDD)	Begin Time	Medium Code	Sample Type	

Science Center Contact	Phone Number	End Date (YYYYMMDD)	End Time	Science Center Contact Email
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**SITE / SAMPLE / SPECIAL PROJECT INFORMATION (Optional)**

State	County	Source Agency Code	Analysis Status*	Analysis Source*	Hydrologic Condition*	Hydrologic Event*	Chain of Custody	Sample Set
NWQL Proposal Number		NWQL Contact Name		NWQL Contact Email		Program/Project		

Station Name: \_\_\_\_\_ Field ID: \_\_\_\_\_

Comments to NWQL: \_\_\_\_\_

Hazard (please explain): \_\_\_\_\_

**ANALYTICAL WORK REQUESTS: SCHEDULES AND LAB CODES (CIRCLE A=add D=delete)**

SCHED 1: \_\_\_\_\_ SCHED 2: \_\_\_\_\_ SCHED 3: \_\_\_\_\_ SCHED 4: \_\_\_\_\_ SCHED 5: \_\_\_\_\_ SCHED 6: \_\_\_\_\_

Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D
Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D
Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D	Lab Code: _____	A	D

**SHIPPING INFORMATION (Number of containers sent)**

___	ALF	___	COD	___	FA	___	FU	___	HUN	___	RCB	___	SAS	___	TOC
___	BGC	___	CU	___	FAM	___	FUS	___	MBAS	___	RU	___	SUR	___	TPCN
___	C18	___	CUR	___	FAR	___	GCC	___	RA	___	RUR	___	SUSO	___	UAS
___	CC	___	DIC	___	FCA	___	GCV	___	RAM	___	RURCV	___	TBI	___	WCA
___	CHL	___	DOC	___	FCC	___	HFL	___	RAR	___	RUS	___	TBY	___	___

NWQL Login Comments: \_\_\_\_\_

Collected by: \_\_\_\_\_ Phone No. \_\_\_\_\_ Date Shipped: \_\_\_\_\_

**FIELD VALUES**

Lab/P Code	Value	Remark	Lab/P Code	Value	Remark	Lab/P Code	Value	Remark
21/00095	_____	_____	51/00400	_____	_____	2/39086	_____	_____
Specific Conductance uS/cm @ 25 deg C			pH Standard Units			Alkalinity – IT mg/L as CaCO3		



\*MANDATORY FOR NWIS

# ***PLEASE USE BLACK INK ONLY***

## ***INSTRUCTIONS FOR COMPLETING ANALYTICAL SERVICES REQUEST FORM***

### ***SAMPLE IDENTIFICATION (Mandatory)***

- NWIS Record No. - Record number of sample assigned by NWIS database (Science Center)
- User Code - Enter user code (indicates where sample data are to be received) available at <https://qwdx.cr.usgs.gov/>
- Project Acct - Enter 9 character account number
- NWQL Laboratory ID - Leave blank (for Laboratory use only)
- Station ID - Enter downstream order number, 15 digit latitude, longitude and sequence number or unique sample identifier
- Begin Date (YYYYMMDD) - Enter 4 digit number for year, 2 digit number for month, 2 digit number for day sample collection started
- Begin Time - Enter 4 digit military time sample collection started
- Medium Code - Enter sample medium code (see attached table)
- Sample Type - Enter sample type code (see attached table)
- Science Center Contact - Enter name of Science Center contact for sample questions or problems
- Science Center Phone - Enter complete phone number for Science Center Contact for sample questions or problems
- End Date (YYYYMMDD) - Enter 4 digit number for year, 2 digit number for month, 2 digit number for day sample collection ended
- End Time - Enter 4 digit military time sample collection ended
- Science Center Contact Email - Enter complete email address for Science Center contact for sample questions or problems

### ***SITE / SAMPLE / SPECIAL PROJECT INFORMATION (Optional)***

- State - Enter 2 digit FIPS code for State in which station is located
- County - Enter 3 digit FIPS code for county in which station is located
- Source Agency Code - Enter Agency Code for the site owner if not USGS
- \*Analysis Status - Enter analysis status code (see attached table)
- \*Analysis Source - Enter analysis source code (see attached table)
- \*Hydrologic Condition - Enter hydrologic condition code (see attached table)
- \*Hydrologic Event - Enter hydrologic event code (see attached table)
- Chain of Custody - Enter Y if sample is chain of custody
- Sample Set - Enter identifier for sample set, and place on all bottles and associated log form, for example: "A", "BB" (max. 2)
- NWQL Proposal Number - Denotes non-routine or custom work assigned by NWQL in negotiated proposal
- NWQL Contact Name - Enter name of NWQL person to be contacted when sample arrives at Lab
- NWQL Contact Email - Enter email of NWQL person to be contacted when sample arrives at Lab
- Program/Project - For example: NAWQA, NASQAN, NPDES, DW - if applicable
- Station Name - Enter local station name
- Field ID - Enter identification assigned by Science Center
- Comments to NWQL - Enter information about sample that NWQL should be aware of (high concentration, etc.)  
**Note:** Samples collected for analysis by Geologic Division **MUST** have the latitude/longitude provided for login
- Hazard - Describe any known hazard associated with sample (chemical, biological, radiological, etc.)

### ***ANALYTICAL WORK REQUESTS: SCHEDULES AND LAB CODES***

- Schedule - Enter schedule number(s) for the desired analyses.
- Lab Code - Enter lab code for analyses to be added or deleted. Circle "A" for addition or "D" for deletion. Maximum 15.

### ***SHIPPING INFORMATION (Please fill in number of sample types sent)***

- NWQL Login Comments - NWQL login personnel comments.
- Collected by: - Enter name of individual that collected/shipped samples
- Phone No. - Enter phone number of individual that collected/shipped samples
- Date Shipped - Enter date samples packed/shipped to NWQL.

### ***FIELD VALUES***

- Lab/P Code/Value/Remark - Enter values and remarks for sc, pH, alk, if needed, enter P code, value, remark for other field values
- USDA - This field is for internal NWQL use only.

\*Mandatory for storage in NWIS

## CODES USED IN WATER-QUALITY PROCESSING SYSTEM

Environmental <u>Medium Code</u>	<u>Description</u>		Quality-Control <u>Medium Code</u>	<u>Description</u>
		OTHER (O)		
OA	Artificial		OAQ	Artificial
ON	Not determined		ONQ	Not determined
OB	Bulk deposition		OBQ	Bulk deposition
		WATER (W)		
WS	Surface water		WSQ	Surface water
WG	Ground water		WGQ	Ground water
WW	Wet deposition		WWQ	Wet deposition
WI	Interstitial water		WIQ	Interstitial water
WA	Air moisture		WAQ	Air moisture
WM	Soil Moisture		WMQ	Soil Moisture
WL	Leachate		WLQ	Leachate
WF	Landfill effluent		WFQ	Landfill effluent
WU	Elutriation		WUQ	Elutriation
WE	Effluent		WEQ	Effluent
WT	Treated water supply		WTQ	Treated water supply
WB	Untreated water supply		WBQ	Untreated water supply
WH	Hyporheic zone		WHQ	Hyporheic zone
WC	Canopy water		WCQ	Canopy water
		SOLIDS (S)		
SS	Suspended sediment		SSQ	Suspended sediment
SB	Bottom material		SBQ	Bottom material
ST	Solids (street sweepings, etc.)		STQ	Solids (street sweepings, etc.)
SC	Core material		SCQ	Core material
SU	Borehole cuttings		SUQ	Borehole cuttings
SO	Soil		SOQ	Soil
SL	Sludge		SLQ	Sludge
SD	Dry deposition		SDQ	Dry deposition
		BIOLOGICAL (B)		
BA	Animal tissue		BAQ	Animal tissue
BP	Plant tissue		BPQ	Plant tissue
BH	Phytoplanktonic species composition and Enumeration (quantitative)		BHQ	Phytoplanktonic species composition and Enumeration (quantitative)
BY	Phytoplanktonic species composition (qualitative)		BYQ	Phytoplanktonic species composition (qualitative)
BE	Periphyton species composition (qualitative)		BEQ	Periphyton species composition (qualitative)
BI	Benthic invertebrates species composition and enumeration (quantitative)		BIQ	Benthic invertebrates species composition and enumeration (quantitative)
BD	Periphyton species composition and Enumeration (quantitative)		BDQ	Periphyton species composition and enumeration (quantitative)
		AIR (A)		
AA	Air		AAQ	Air
AS	Soil gas		ASQ	Soil gas

## CODES USED IN WATER-QUALITY PROCESSING SYSTEM (Continued)

<p>Sample <u>Type Code</u></p>	<p><u>Description</u></p>	<p>*Analysis <u>Status Code</u></p>	<p><u>Description</u></p>
A	Not determined	I	Internal-use only
B	Other QA	P	Proprietary
H	Composite (time)	U	Unrestricted
1	Spike		
2	Blank		
3	Reference		
4	Blind		
5	Duplicate		
6	Reference material		
7	Replicate		
8	Spike Solution		
9	Regular		
		<p>*Hydrologic <u>Condition Code</u></p>	<p><u>Description</u></p>
		A	Not determined
		4	Stable, low stage
		5	Falling stage
		6	Stable, high stage
		7	Peak stage
		8	Rising stage
		9	Stable, normal stage
		X	Not Applicable
<p>*Analysis <u>Source Code</u></p>	<p><u>Description</u></p>	<p>*Hydrologic <u>Event Code</u></p>	<p><u>Description</u></p>
A	Not determined	A	Spring breakup
B	Non-USGS field	B	Under ice cover
C	Non-USGS lab only	C	Glacial lake outbreak
D	Non-USGS lab and field	D	Mudflow
F	USGS field and non-USGS field	E	Tidal action
G	USGS field and non-USGS lab	F	Drainage basin affected by fire
H	USGS field and non-USGS lab and field	H	Dam break
1	USGS lab and non-USGS field	J	Storm
2	USGS lab and non-USGS lab	K	Backwater
3	USGS lab and non-USGS lab and field	1	Drought
4	USGS lab and field and non-USGS field	2	Spill
5	USGS lab and field and non-USGS lab	3	Regulated flow
6	USGS lab and field and non-USGS lab and field	4	Snowmelt
7	USGS field only	5	Earthquake
8	USGS lab only	6	Hurricane
9	USGS lab and field	7	Flood
		8	Volcanic action
		9	Routine sample
		X	Not applicable
<p>Remark <u>Code</u></p>	<p><u>Description</u></p>		
Blank	Not Remarked		
E	Estimated Value		
<	Actual value is known to be less than value shown		
>	Actual value is known to be greater than value shown		
M	Presence of material verified but not quantified		
N	Presumptive evidence of presence of material		
U	Material specifically analyzed for but not detected		
A	Average value		
V	Value affected by contamination - OWQ 97.8		
S	Most probable value		
R	Radiochemistry non-detect, result below ssLc		

## VALUES FOR PARAMETER CODE 82398

(Sampling Method)

10	Equal Width Increment (EWI)	4010	Thief sample
15	Equal Width Increment, Non-Isokinetic	4020	Open-top bailer
20	Equal Discharge Increment (EDI)	4025	Double-valve bailer
25	Timed sampling interval	4030	Suction pump
30	Single vertical	4031	Suction lift centrifugal pump
40	Multiple verticals	4032	Suction lift jet pump
50	Point sample	4033	Suction lift peristaltic pump
55	Composite-multiple point samples	4040	Submersible pump
60	Weighted bottle	4041	Submersible bladder pump
70	Grab sample (dip)	4042	Submersible gas reciprocating pump
80	Discharge integrated, equal transit rate (ETR)	4043	Submersible gas lift pump
90	Discharge integrated, centroid	4044	Submersible jet pump
100	Van Dorn sampler	4045	Submersible multiple impeller (turbine) pump
110	Sewage sampler	4046	Submersible helical rotor pump
120	Velocity integrated	4047	Submersible gear pump
130	Seepage Meter	4048	Submersible gas-displacement pump
140	Passive Diffusion, OBW	4050	Squeeze pump
200	Zooplankton-net	4060	Gas reciprocating pump
210	Benthic invertebrate-mechanical grab	4070	Gas lift
220	Benthic invertebrate-mechanical dredge	4090	Peristaltic pump
230	Benthic invertebrate-artificial substrate	4090	Jet pump
240	Benthic invertebrate-natural substrate	4100	Flowing well
250	Benthic invertebrate-net	4110	Resin trap collector
260	Phytoplankton-net	5010	Sediment core
270	Phytoplankton-water bottle	8010	Other
280	Periphyton-natural substrate	8020	Syringe Sample
281	Periphyton-natural substrate, Depositional Targeted Habitat	8030	Grab sample at water-supply tap
282	Periphyton-natural substrate, Richest Targeted Habitat	8040	Spigot (Non-water-supply)
290	Periphyton-artificial substrate	8050	Grab sample at tap(s) on a dam
300	Tissue taken with biopsy plug		
900	Suspended sediment; Pumping, stream sample using a pumping machine		
910	Suspended sediment; Single-stage, nozzle at fixed stage, passively filling		
920	Suspended sediment; Box single vertical, depth-integrated, attached to structure		
930	Suspended sediment; Partial depth, depth integrated, part of single vertical		
940	Suspended sediment; Partial width, depth/width integrated, part of cross-section		
1000	(Bedload), Single equal width increment (SEWI)		
1010	(Bedload), Multiple equal width increment (MEWI)		
1020	(Bedload), Unequal width increment (UWI)		

## QUALITY ASSURANCE DATA PARAMETER CODES

99100	Blank, Type of solution	99103	Reference Material, Source (fixed value)
10	Inorganic-free blank water	10	National Water Quality Lab (USGS)
20	Standard reference water sample	20	U.S. Environmental Protection Agency
30	Matched matrix	30	Standard Reference Water Sample (USGS)
40	Organic-free water	35	Mix of Standard Reference Water Samples
50	VOC free water	40	NIST (formerly NBS)
60	Sterile saline buffered water	50	Canadian Inland Waters
70	Sterile buffered water PO <sub>4</sub> /MgCl <sub>2</sub>	60	Water Science Center Lab
110	Inorganic-free+nitrogen-purged organic-free water (VOC-free)	70	Natural Sample
120	Organic-free+nitrogen-purged organic-free water (VOC-free)	99	Unknown
130	Inorganic-free+org-free+nit-purged org-free water (VOC-free)	100	Chemical Supplier
200	Other	200	Other
		99104	Reference Material or Spike Lot Number
99101	Blank, Source of solution (fixed value)	99105	Replicate, Type (fixed value)
10	National Water Quality Lab (USGS)	10	Concurrent
20	U.S. Environmental Protection Agency	20	Sequential
30	Standard Reference Water Sample (USGS)	30	Split
35	Mix of Standard Reference Water Samples	40	Split-concurrent
40	NIST (formerly NBS)	50	Split-sequential
50	Canadian Inland Waters	200	Other
55	USGS Mercury Research Lab (Wisconsin Water Science Center)	99106	Spike, Type (fixed value)
60	Water Science Center Lab	10	Field
61	Science Center #1 Lab	20	Laboratory
62	Science Center #2 Lab	30	Surrogate
63	Science Center #3 Lab	40	Internal Standards
64	Science Center #4 Lab	200	Other
70	Natural Sample	99107	Spike, Source (fixed value)
71	Field Office #1 Lab	10	National Water Quality Lab (USGS)
72	Field Office #2 Lab	20	U.S. Environmental Protection Agency
73	Field Office #3 Lab	30	Standard Reference Water Sample (USGS)
74	Field Office #4 Lab	35	Mix of Standard Reference Water Samples
99	Unknown	40	NIST (formerly NBS)
100	Chemical Supplier	50	Canadian Inland Waters
110	Burdick and Jackson	60	Water Science Center Lab
120	J.T. Baker	70	Natural Sample
130	EM Science	99	Unknown
140	EMD Chemical, Inc/Omnisolve	100	Chemical Supplier
150	Ricca Chemical Company	110	Supelco
200	Other	120	Protocol Analytical Supplies, Inc.
		200	Other
99102	Blank, Type of sample (fixed Value)	91132	Spike Volume, microliters, (uL)
1	Source Solution	99108	Spike Volume, milliliters, (mL)
10	Shelf (hold)		
20	Refrigerator	99109	Starting Date for a Set of Samples (YYYYMMDD)
30	Trip		
40	Sampler	99110	Ending Date for a Set of Samples (YYYYMMDD)
50	Splitter		
60	Filter	99111	Quality Assurance Data Type Associated with Sample (fixed value code)
70	Preservation	1	No Associated QA Data
80	Equipment	10	Blank
90	Ambient	20	Blind Sample
100	Field	30	Replicate Sample
150	Lab Blank	40	Spike Sample
200	Other	100	More than one type of QA Sample
		110	Cross-Section Information Stored
		120	Well Purge Information Stored
		200	Other