Hydrospi	here	Investigation
Data Sheet		_

School name:	Class or group name:
Name(s) of Student(s) collecting data:	
Measurement Time: * Year: Month: Day: Time:	:(UT)
Name of Site :	
Water State: (check one) * □ Normal □ Flooded □ Dry □ Frozen Note: If Normal is selected, continue b	Unreachable below; all other selections stop here
Transparency	
Enter data below, depending on whether you Tube method.	are using the Secchi Disk or the Transparency
Secchi Disk Secchi Disk Test 1: Distance from observer to:	
to water surface m	
where disk disappearsm where disk re OR	eappears m
Secchi Disk reaches the bottom and does to water surface m depth to the bo	not disappear. ottom of the water site
Secchi Disk Test 2: Distance from observer to:	
to water surface m	
where disk disappearsm where disk re	eappears m
OR	
Secchi Disk reaches the bottom and does to water surface m depth to the bo	not disappear. ottom of the water site
Secchi Disk Test 3: Distance from observer to:	
to water surface m	
where disk disappearsm where disk re	eappears m
OR	
Secchi Disk reaches the bottom and does to water surface m depth to the bottom	not disappear. ottom of the water site

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<i>Transparency Tube</i> Transparency Tube Test 1: cm □ Greater than depth of Transparency Tube
Transparency Tube Test 2: cm Greater than depth of Transparency Tube
Transparency Tube Test 3: cm Greater than depth of Transparency Tube
Comments:
Water Temperature: Measured with (check one) alcohol-filled thermometer prob
Temperature Test 1: °C
Temperature Test 2: °C
Temperature Test 3: °C
Comments:
Dissolved Oxygen: Dissolved Oxygen kit: Manufacturer Model Salinity (ppt)
Dissolved Oxvaen Test 1: (ma/L)
Dissolved Oxygen Test 2: (mg/L)
Dissolved Oxygen Test 2: (mg/L)
Dissolved Oxygen Test 3: (mg/L)
Dissolved Oxygen probe: Manufacturer Model
Probe Measure Salinity Correction Dissolved Oxygen Factor (mg/L)
Test 1
Test 2
Test 3

Note: Salinity correction factor is taken from the manufacturer's instructions for the probe. Comments:

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<i>Electrical Conductivity:</i> Temperature of water sample being tested:°C Conductivity of standard: MicroSiemens/cm (µS/cm)
Conductivity Test 1: µS/cm
Conductivity Test 2: µS/cm
Conductivity Test 3: µS/cm
Comments:
Salinity Tide Information Time of High or Low Tide before Salinity Measurement (UTC 24hr): Check one: □ High Tide: □ Low Tide Time of High or Low Tide after Salinity Measurement (UTC 24hr): Check one: □ High Tide: □ Low Tide Location of tide:
Latitude of Measurement: ☐ North ☐ South (of the equator)
Longitude of Measurement:
Salinity kit (for Salinity Titration samples) manufacturer model

Salinity (Complete for method used)

Hydrometer Method

	Temperature of water sample in 500 mL tube (°C)	Specific Gravity	Salinity of Sample (ppt)
Test 1			
Test 2			
Test 3			

Salinity Titration Method

Salinity Test 1: ____ ppt

Salinity Test 2: ____ ppt

Salinity Test 3: ____ ppt

Comments:

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If salt added, conductivity (µS/cm)	рН
1.	
2.	
3.	

Value of buffers used:
pH 4
pH 7
pH 10 (Check all used)

Comments: _____

Alkalinity:

Alkalinity kit:	manufacturer	model

Kit used reads alkalinity directly

Alkalinity Test 1: ____ mg/L as CaCO3

Alkalinity Test 2: ____ mg/L as CaCO3

Alkalinity Test 3: ____ mg/L as CaCO3

Kit used counts drops

	Number of drops	x	Conversion constant for your kit	=	Alkalinity (mg/L as CaCO ₃)
Test 1					
Test 2					
Test 3					

Comments:

Nitrate

Nitrate kit: manufacturer _____ model _____

	Nitrate and Nitrite (mg/L NO ₃ -N + NO ₂ -N)	Nitrate (mg/L NO2-N) Optional
Test 1		
Test 2		
Test 3		

Comments: _____

DEACTIVATED PROTOCOL: The GLOBE Hydrosphere Protocol - Salinity Titration has been deactivated as of September 2023 Hydrosphere Investigation Data Sheet – Page 5	To learn more about the Deactivation Process, please visit the <u>GLOBE.gov</u> website. SEE GLOBE CLOUD CHART FOR VISUAL REFERENCE	
School/Observer Name:	Study Site:	
Date (ex. 2017 01 13): Year: Month:Day:		
Time (ex. 24 Hour Clock: 14 26): Local: Hour Mir	nute Universal: Hour Minute	
 1. What is in Your Sky? Total Cloud/Contrail Cover: Sky is Obscured None (Go to box 2) Scattered (25-50%) Few(<10%) Broken (50-90%) Isolated (10-25%) Overcast (90-100%) *If you can observe sky comparison 	 Fog Sand Heavy Rain Spray Heavy Snow Smoke Blowing Snow Dust Go to box 6 	
2. Sky Color and Visibility		
Color (Look Up): OCannot Observe ODeep Blue Visibility (Look Across): OCannot Observe OUnusually Clea	OBlue OLight Blue OPale Blue OMilky ar OClear OSomewhat Hazy OVery Hazy OExtremely Ha	azy
 3. High Level Clouds No High Level Clouds Observed (Go to box 4) Cloud Type: Contrails (number of): Cirrus Cirrocumulus Cirrostratus 	short-livedCloud Cover:Visual OpacitypersistentO Few(<10%)	r <u>:</u> :
4. Mid Level Clouds	Cloud Cover: Visual Opacity:	
• No Mid Level Clouds Observed (Go to box 5)	O Few (<10%) ○ Opaque	
Cloud Type:	○ Isolated (10%-25%) ○ Translucent	
 Altostratus Altocumulus 	 Scattered (25%-50%) Broken (50%-90%) Overcast (>90%) 	
5. Low Level Clouds		
• No Low Level Clouds Observed (Go to box 6)	O Few (<10%) O Opaque	
Cloud Type:	O Isolated (10%-25%) O Translucent	
 Fog Stratus Nimbostratus Cumulonimbus Stratocumulus 	 Scattered (25%-50%) Broken (50%-90%) Overcast (>90%) 	
6. Surface Conditions		
Mandatory:	You may submit any or all	
Yes No Yes Snow/Ice O O Dry Ground O	No Temperature:°C	
Standing Water O Leaves on Trees Muddy O Raining/Snowing	Barometric Pressure:mb Relative Humidity:%	
Comments:		