

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

YSI ProSI

RQ:

2019-11-25-09

Project:

East Nassau North Beach

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

10/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J Pansh	11/25/19	728	21.7	759	8.7	8.7	99.9	-	1.05	☒ F	☒ F
ICV	J	11/25/19	729	21.7	759	8.7	8.79	100	-	1.05	☒ F	☒ F
CCV	K. Appleby	11/25/19	1712	19.6	758	9.1	9.18	100.3	-	1.05	☒ F	☒ F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J Pansh	11/25/19	734	190711B	7/20	1000	1000	☒ F	☒ F
ICV	J	11/25/19	735	190711A	7/20	100	104	☒ F	☒ F
CCV	J	11/25/19	1714	190711C	7/20	50,000	50230	☒ F	☒ F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J Pansh	11/25/19	740	2902878	1/21	7.00	22.4	7.01	-33.8	☒ F	☒ F
Calibr.	J	11/25/19	741	2907062	7/21	4.00	22.7	4.00	147.3	☒ F	☒ F
Calibr.	J	11/25/19	742	2904E91	10/20	10.00	22.3	10.03	202.6	☒ F	☒ F
ICV	J	11/25/19	743	2907062	7/21	4.00	22.5	4.03	144.4	☒ F	☒ F
CCV	J	11/25/19	1716	2904E91	10/20	10.00	22.5	10.03	-205.2	☒ F	☒ F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 10/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	J Pansh	11/25/19	745	0.00	0.00	☒ F	☒ F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?
Yes / No

WIN Station Name: ST MARYS R AT GA LINE US 17

Date: 11/25/19
(mm/dd/yyyy)

WIN/ Field ID: 19010001

WBID: 2097N

Latitude: 30.741583
(Decimal Degrees)

County: Nassau

ORG ID: 21FLA

Longitude: -81.688141
(Decimal Degrees)

Receiving Body of Water: Atl Ocean

RQ-2019- 11-25-09

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>J. Parnish</u>						X	X	X	X	X
<u>K. Appleby</u>							X	X	X	

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☐ Syringe		
☐ Dipper	☐ Other		
Depth Measured with <u>W611 #1</u>			
Equipment ID <u>ortho kit #3</u>			

Collection Method			
☐ Wading	☐ Canoe/Kayak		
☐ From Shore	☐ Electric Motor		
☐ Other	☒ Gasoline Motor		

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Motor ID# Best Matrix: Fresh / Marine / DI
Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA Tide: Rising / Falling / Slack / NA Tide Times: High / Low
Time Zone Time Total Depth (m) Sample Depth (m) Secchi Disk (m) DO (mg/L) DO (%SAT) pH Salinity (PPT) Sp COND (µmhos/cm) Temp. (C°)

EST	<u>1355</u>	<u>9.4</u>	<u>0.3</u>	<u>0.4</u>	<u>7.0</u>	<u>70.0</u>	<u>6.17</u>	<u>0.42</u>	<u>851</u>	<u>14.9</u>
CEN			<u>5.3</u>		<u>6.9</u>	<u>69</u>	<u>6.12</u>	<u>0.42</u>	<u>850</u>	<u>14.8</u>

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>SA9203102</u>	<u>7/2020</u>	<u>5.2</u>
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>NA9129070</u>	<u>5/2020</u>	<u>5.2</u>
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>R93A86371</u>		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHL / W-COLOR / W-SO4-IC / W-TDS	☒ Ice <u>120</u>	Contains: 1:1 HNO3 Lot No.: NA9129070 Expires: 05/09/20 See Safety Data Sheet (SDS)		
Physical/Aggregate (Marine)	☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☒ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-D1 ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-D1 ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes:

WIN ID/Field ID:



19010001

ST MARYS R AT GA LINE US 17

Signature:

[Signature]

Date:

11/25/2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / ☒ No

WIN Station Name: St. Marys River at Crandall rd.

Date: 11/25/2019
(mm/dd/yyyy)

WIN/ Field ID: 2097N

WBID: G4NE0293

Latitude: 30.72271

(Decimal Degrees)

County: Nassau

ORG ID: 21FLA

Longitude: -81.62189

(Decimal Degrees)

Receiving Body of Water: Atl Ocean

RQ-2019- 11-25-09

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
<u>K. Appleby</u> <u>J. Parrish</u>						☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☒ Pole		
											☐ Carboy	☐ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with Equipment ID <u>Des</u>				
Collection Method															
						☐ Wading	☒ From Shore	☐ Other	☐ Canoe/Kayak						
									☐ Electric Motor						
									☐ Gasoline Motor						
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# <u>Des</u>			Matrix: Fresh / <u>(Marine)</u> / DI						
Photos: Yes / <u>No</u>						Flow: No Flow / Intestinal / <u>Flowing</u> / NA			Tide: Rising/ Falling/ Slack/ NA			Tide Times: High <u>4:00</u> Low			
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	1020	0.5	0.3	0.5	7.36	83.5	7.32	19.07	30642	15.9					
CEN				S											
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:															
SBIO D Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:															
Parameter Suite		Parameter Methods				Preservation		Lot#	Expiration	pH Check					
Preserved Nutrients		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		<u>SA9203100</u>	<u>7/2020</u>	<u><2</u>					
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		<u>NA9129070</u>	<u>5/2020</u>	<u><2</u>					
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice									
Chlorophyll		☒ CHL5UTTE-W				☒ Ice									
Physical/Aggregate (Fresh)		☐ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY / ☐ W-CL-IC / ☐ W-COLOR / ☐ W-SO4-IC / ☐ W-TDS				☐ Ice									
Physical/Aggregate (Marine)		☒ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY				☒ Ice									
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin									
Periphyton		☐ ALGAE-ID				☐ Ice									
Microbiology		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice									
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice									
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice									
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice									
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice									

Notes:

WIN ID/Field ID:



G4NE0293

St. Marys River at Crandall rd.

Signature: [Signature]

Date: 11/25/2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes ☒ No ☐

WIN Station Name: Little St. Marys River at the Mouth

Date: 11/25/19
(mm/dd/yyyy)

WIN/Field ID: G4NE0291

WBID: 2106

Latitude: 30.576507

(Decimal Degrees)

County: Nassau

ORG ID: 21FLA

Longitude: -81.71142

(Decimal Degrees)

Receiving Body of Water: Atl Ocean

RQ-2019- 2019-11-25-09

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>J. Purnell</u> <u>K. Appleby</u>				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with <u>Well #1</u>			
									Equipment ID <u>Ortho Kit #3</u>			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☐ From Shore	☐ Electric Motor		
									☐ Other	☒ Gasoline Motor		
Water Level: Dry/ Pooled/ Low ☒ Normal/ High/ Flooded				Meter ID# <u>DCSL</u>				Matrix: Fresh/ Marine/ DI				
Photos: Yes ☒ No ☐ Flow: No Flow/ Intestinal ☒ Flowing/ NA				Tide: Rising/ Falling/ Slack/ NA				Tide Times: High <u>1200</u> Low				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)		
<u>PST</u>	<u>1335</u>	<u>6.8</u>	<u>0.3</u>	<u>0.6</u>	<u>6.7</u>	<u>66.3</u>	<u>6.11</u>	<u>0.23</u>	<u>484</u>	<u>14.9</u>		
<u>CEN</u>			<u>4.6</u>		<u>6.7</u>	<u>66.4</u>	<u>6.19</u>	<u>0.23</u>	<u>484</u>	<u>14.9</u>		
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:												
SBIO ID Numbers: SBIO-ID: <u>None</u> HA-ID: RPS-ID: Macrophyte-ID: LIMS#:												
Parameter Suite		Parameter Methods				Preservation		Lot#	Expiration	pH Check		
Preserved Nutrients		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		<u>SA9203100</u>	<u>7/2020</u>	☒ 2		
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		<u>NA9129070</u>	<u>5/2020</u>	☒ 2		
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice		<u>R9BA96875</u>				
Chlorophyll		☒ CHLSUITE-W				☒ Ice						
Physical/Aggregate (Fresh)		☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CL-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS				☒ Ice						
Physical/Aggregate (Marine)		☐ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY				☐ Ice						
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin						
Periphyton		☐ ALGAE-ID				☐ Ice						
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice						
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice						
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA				☐ Ice						
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice						

Notes:

WIN ID/Field ID:



G4NE0291

Little St. Marys River at the Mouth

Signature: [Signature]

Date: 11/25/2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Data)

(Initials/Data)

(Initials/Data)

(Initials/Data)



SR # _____

ALS Contact _____

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

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Nassau North Boat

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. ParishField Report Prepared By: K. Appleby

Project ID: SMP

Collected By: J. Parrish & Kim ApplebySampling Agency: FDEP NE ROL

Location	WIN ID/Field ID:  G4NE0293	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>11/25/2019</u> Time <u>1020</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Salt</u>	Diss. Oxygen <u>7.36</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	A
WIN/ST	St. Marys River at Crandall rd.	Temp (C) <u>15.9</u>	pH <u>7.32</u>	Sample Depth <u>0.3</u>	Sp. Conductance (umho/cm) <u>30642</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>19.07</u>	Comments	
Location	WIN ID/Field ID:  19010001	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>11/25/2019</u> Time <u>1355</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Salt</u>	Diss. Oxygen <u>7.0</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	A
WIN/ST	ST MARYS R AT GA LINE US 17	Temp (C) <u>14.9</u>	pH <u>6.17</u>	Sample Depth <u>0.3</u>	Sp. Conductance (umho/cm) <u>851</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.42</u>	Comments	
Location	WIN ID/Field ID:  G4NE0291	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>11/25/2019</u> Time <u>1335</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>6.7</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	B
WIN/STOR	Little St. Marys River at the Mouth	Temp (C) <u>14.9</u>	pH <u>6.11</u>	Sample Depth <u>0.3</u>	Sp. Conductance (umho/cm) <u>484</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.23</u>	Comments	
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	☐ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments	

Relinquished By: <u>K. Appleby</u>	Date/Time <u>11/25/2019 1530</u>	Shipping Method <u>Fed Ex</u>	Number of Coolers Shipped: <u>1</u>	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY TURBIDITY W-BR-IC W-F W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP W-ICPMS						

Group: B Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 1

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Group: B Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 1

W-PO4-F

Group B Bottle P-250ml-w-TKN #bottle 2 ICE Enter # bottles sent to lab 2 to ALS

ALS-ECQ

Added per
p/n

