Log-in Checklist

RQ- **RQ-2018-07-23-11** Login Station ID: **# 3**

Shipping Method: (FedEx) / UPS | HD | Greyhound |_____ Date/Time of Receipt: **08/21/2018 / 09:25**

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
			Yes	No	Yes	No	
RED	**2.1C**	**14**		**X**			
RED	**2.7C**	**12**		**X**			

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

**Note: If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

Chain of Custody/ Field Sheet(s) Included? Yes **X No_____

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes_____ No **X** Date_____

CONTAINER CHECK

Evidence Tape on Bottles? Yes_____ No **X If yes, is it intact? Yes_____ No_____

Caps on tight? Yes **X No_____ **Containers intact? Yes **X** No_____

Sufficient Sample Volume: Yes **X No_____

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes_____ No **X** Init: **ABS**

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PC-AA-SF		
W-E8321-DI, -MS, -21			W-NP-AA-SF		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PCL-SQ-R		
W-U2060-MS			W-TR-TQ		
W-PCB-R			W-CT-CI-R		
W-PAH (-R)			W-PSNP-TQ		

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

Acid Preserved Samples: pH ≤ 2.0? Yes **X No____ NA____ Init: **ABS**

W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes____ No____ NA **X Init: **ABS**

Coolers Unpacked/Checked by: **ABS/SR** Date: **08/21/2018** NCRs (Y/N)? **X**

Event ID: **NW-DIST-2018-08-21-05** NCR #_____

Log-in Checklist

Samples with Incorrect pH Preservation or presence of Chlorine

Field ID	Bottle Test ID(s)	pH / Cl	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

Infrared Thermometer ID:	REC_03_2018
pH Paper 0.0 – 3.0 Lot #	230515 EXP:10/30/2018
pH Paper 0 – 13 Lot #	222516 EXP:09/15/2019
Chlorine Test Strips Lot #	8082 EXP:2020/12

Additional Comments:

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes_____ No__X__

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____ If No_____

no, were samples shipped on dry ice? Yes_____ No_____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):

Samples preserved within 48 hours? Yes_____ No_____

Date and time samples preserved: _____

H2SO4 : SA72750/0. Exp: 10-02-2016 pg 1

Request Number: RQ-2018-07-23-11

Choctawhatchee Bay-Aqualab

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Collected By: OCEC Vols

Field Report Prepared By: Cheryl Bunch

Sampling Agency: OCEC

Location: Field Blank	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 8/19/18 Time 1150 Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)					
Field ID: FB	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments						
Location: SRS@Liza Jackson Prk	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 8/19/18 Time 1109 Eastern Central	Composite end Date Time	Bottle Group(s)					
Fi RQ-2018-07-23-11	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 5.0 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
W Date:	Temp (C) 29.7	pH	Sample Depth 0.15 ☐ ft ☑ m	Sp. Conductance (umho/cm)					
La Time:	☐ dd ☐ dms	Salinity (ppt)	Comments						
Location: SRS@Cinco Bayou (West Side)	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 8/19/18 Time 1425 Eastern Central	Composite end Date Time	Bottle Group(s)					
Field RQ-2018-07-23-11	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 6.0 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/ Date:	Temp (C) 30.0	pH	Sample Depth 0.15 ☐ ft ☑ m	Sp. Conductance (umho/cm)					
Latitu Time: ☐ dms	☐ dd ☐ dms	Salinity (ppt)	Comments						
Location: Garnier Bayou, Hand Cove	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 8/19/18 Time 0940 Eastern Central	Composite end Date Time	Bottle Group(s)					
Field ID RQ-2018-07-23-11	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 7.0 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/ST Date:	Temp (C) 29.4	pH	Sample Depth 0.15 ☐ ft ☑ m	Sp. Conductance (umho/cm)					
Latitude Time: ☐ dms	☐ dd ☐ dms	Salinity (ppt)	Comments						

1 Field ID ↑ WIN ID ↓ 320100A5

3 Field ID ↑ WIN ID ↓ 3201BE28

4 Field ID ↑ WIN ID ↓ 3201BH15

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[signature]	8/20/18 1600	Fedex	2	~~ARB~~	08-21-18 9:25

BY Phone Cheryl Bunch. ~~ARB~~ 08-21-18

Group: A Bottle Type: P-1L # of Bottles: 19 Preservative: ICE **Enter Number of Bottles Sent to Lab** _____

W-COND
W-TSS

Group: A Bottle Type: P-500ML # of Bottles: 19 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** _____

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN

pg 2

last revised Jan 25, 2018

Request Number: RQ-2018-07-23-11

Choctawhatchee Bay-Aqualab

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Field Report Prepared By: Cheryl Bunch

Collected By: OCEC Vols

Sampling Agency: OCEC Vols

Location: Choctaw Bay @ OK Isl.
RQ-2018-07-23-11
Field ID: 5
WIN ID: 32010C11
Date:
Time:

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 8/17/18 Time 1138 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2)

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 5.5 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 29.2 | pH | Sample Depth 0.15 ☐ ft ☑ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Regatta Bay, SE End of MidBay BR
RQ-2018-07-23-11
Field ID: 9
WIN ID: 32010K47
Date:
Time:

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 8/19/18 Time 0721 Eastern Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 5.0 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 28.5 | pH | Sample Depth 0.15 ☐ ft ☑ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Mack Bayou, S. Choct Bay
RQ-2018-07-23-11
Field ID: 12
WIN ID: 32010K33
Date:
Time:

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 8/17/18 Time 0945 Eastern Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth 0.15 ☐ ft ☑ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Hogtown Bayou, Cessna Prk.
RQ-2018-07-23-11
Field ID: 13
WIN ID: 32010N29
Date:
Time:

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 8/19/18 Time 1445 Eastern Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 8.0 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 30.7 | pH | Sample Depth 0.15 ☐ ft ☑ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Salinity (ppt) | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
			2		8-21-18/9:45

Group:	Bottle Type:	# of Bottles:	Preservative:	
A	P-1L	19	ICE	Enter Number of Bottles Sent to Lab _____

W-COND
W-TSS

Group:	Bottle Type:	# of Bottles:	Preservative:	
A	P-500ML	19	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN

Request Number: RQ-2018-07-23-11

Choctawhatchee Bay-Aqualab

Customer: NW-DIST

Project ID: DISTRICT

Florida Department of Environmental Protection
Central Laboratory Submittal Form

3

last revised Jan 25, 2018

Requester: Cheryl Bunch

Field Report Prepared By: Cheryl Bunch

Collected By: OCEC Vols

Sampling Agency: OCEC

Location: US 331 Bridge, SE End
RQ-2018-07-23-11
Date:
Time:
15
Field ID
WIN ID
32010P33

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 8/17/18 Time 1015 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STC | Temp (C) | pH | Sample Depth 0.15 ☐ ft ☒ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

Location: Tucker Bayou
RQ-2018-07-23-11
Date:
Time:
16
Field ID
WIN ID
32010R26

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 8/17/18 Time 1400 Eastern Central | Composite end Date Time | Bottle Group(s)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 8.0 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STO | Temp (C) 29.6 | pH | Sample Depth 0.15 ☐ ft ☒ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Old Pass Lagoon at Marina
RQ-2018-07-23-11
Date:
Time:
17
Field ID
WIN ID
3201EP34

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 8/19/18 Time 0830 Eastern Central | Composite end Date Time | Bottle Group(s)

Field I | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 5.0 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/S | Temp (C) 28.6 | pH | Sample Depth 0.15 ☐ ft ☒ m | Sp. Conductance (umho/cm)

Latitud ☐ dd ☐ dms | Salinity (ppt) | Comments

Location: Joe's Bayou
RQ-2018-07-23-11
Date:
Time:
20
Field ID
WIN ID
32010E21

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 8/19/18 Time 1224 Eastern Central | Composite end Date Time | Bottle Group(s)

Field I | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 3.0 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/S | Temp (C) 28.9 | pH | Sample Depth 0.15 ☐ ft ☒ m | Sp. Conductance (umho/cm)

Latitud ☐ dd ☐ dms | Salinity (ppt) | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
			2		8-21-18 9:25

Group: A	Bottle Type:	P-1L	# of Bottles: 19	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-COND					
	W-TSS					

Group: A	Bottle Type:	P-500ML	# of Bottles: 19	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					

Request Number: RQ-2018-07-23-11

Choctawhatchee Bay-Aqualab

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Project ID: DISTRICT

Requester: Cheryl Bunch

Collected By: OCEC Vols

Field Report Prepared By: Cheryl Bunch

Sampling Agency: OCEC

Location: Garnier Bayou at Longwood Prk	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/18 Time 0900 Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID: RQ-2018-07-23-11 21	Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen 7.0 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN ID 3201BM21 Date: Time:	Temp (C) 26.5	pH	Sample Depth 0.15 ☐ ft ☒ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	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 ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	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 ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	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 ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
			2	[signature]	8-21-18 10:25

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	19	ICE	
	W-COND			
	W-TSS			
A	P-500ML	19	ICE And H2SO4	
	W-NH3			
	W-NO2NO3			
	W-S-A-TP			
	W-TKN			

RQ-2018-07-23-11

Date of Request: 11-JUN-2018
Created By: BUNCH_CA On: 11-JUN-2018
Modified By: WATTS_J On: 02-JUL-2018
Customer: NW-DIST
Project: DISTRICT
Division: Division of Environmental Assessment and Restoration
District: Northwest District
Sampling Event: Choctawhatchee Bay-Aqualab

Send Coolers To:

Phone: SC-695-8300
160 Government Center
Suite 308
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

Send Final Report To:

160 Government Center
Suite 308
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

Program Module Number: 1306
Priority: 3
Event Status: R
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 02-JUL-2018
Biology Request Reviewed By:
Sampling Kit Required: YES Ship on: 13-JUL-2018
Sampling Kit Shipped: YES On: 09-JUL-2018
Sampling Kit Packed By: SHAIK_A
Preservatives Needed: NO
Date to Receive Samples: 20-AUG-2018
Received By: SHAIK_A On: 21-AUG-2018

Report Type: Final Only
FTP Data: NO
QC Report: YES
Date Log: NO
Authorization Log: NO

Comments:

Bottle Group A (Water) With 19 Samples:

Bottle Type: P-1L Number of Bottles: 19 Preserved With: ICE

W-COND	Template: DEFAULT	(EPA 120.1) Specific Conductivity in aqueous matrices (umhos/cm at 25 deg C).
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Bottle Type: P-500ML Number of Bottles: 19 Preserved With: ICE And H2SO4

W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices

Cooler Packing Worksheet for Request: RQ-2018-07-23-11
Choctawhatchee Bay-Aqualab
Ship Cooler On: 7/13/2018
Customer/Project: NW-DIST/DISTRICT

Assigned To: SHAIK_A
Requester: Cheryl Bunch
Priority: 3

SC-695-8300
160 Government Center
Suite 308
Pensacola, FL 32502-5794

Attn: Cheryl Bunch

Please return packing list with sample submittal forms.

Comments:
No preservatives needed.

Requested Analyses:

Bottle Group: A **# of Sites: 19**

Container ID: P-1L **Qty: 19** **Preservation: ICE** **Lot #** 71233

Description: Plastic Bottle 1L

Analysis	Description
W-COND	Specific Conductivity in aqueous matrices (umhos/cm at 25 deg C).
W-TSS	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: P-500ML **Qty: 19** **Preservation: ICE And H2SO4** **Lot #** 71230

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices

Cooler Packed By: DBJ Number of Coolers: 3 Date: 7-9-18

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ___ FedEx Bills, if applicable
- ✓ Plastic Bags/Zip Ties
- X Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-07-23-11

Do Not Lift Using This Tag

SHIP: PRIORITY OVERN.

ORIGIN ID:TLHA (850) 685-8300
CHERYL BUNCH
FL DEP NORTHWEST DISTRICT
160 W GOVERNMENT CENTER
STE 308
PENSACOLA, FL 325025740
UNITED STATES US

SHIP DATE: 09JUL18
ACTWGT: 38.00 LB MAN
CAD: 0446970/CAFE3210

TO JOHN WATTS
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

TALLAHASSEE FL 32399
(850) 245-8077 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

FedEx
TRK# 0221 4385 5031 2093

TUE - 21 AUG 10:30A
PRIORITY OVERNIGHT

XH TLHA

32399
FL-US
TLH

FID 329138 20AUG18 PNSA

RT 856 1 10:30 B 2093 08.21

FZ

Do Not Lift Using This Tag

SHIP: PRIORITY OVERN.

ORIGIN ID:TLHA (850) 685-8300
CHERYL BUNCH
FL DEP NORTHWEST DISTRICT
160 W GOVERNMENT CENTER
STE 308
PENSACOLA, FL 325025740
UNITED STATES US

SHIP DATE: 09JUL18
ACTWGT: 38.00 LB MAN
CAD: 0446970/CAFE3210

TO JOHN WATTS
FLORIDA DEP/CHEMISTRY SECTION
2600 BLAIRSTONE RD

TALLAHASSEE FL 32399
(850) 245-8077 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

FedEx
TRK# 0221 4385 5031 2108

TUE - 21 AUG 10:30A
PRIORITY OVERNIGHT

XH TLHA

32399
FL-US
TLH

FID 329138 20AUG18 PNSA

RT 856 1 10:30 B 2108 08.21

FZ