

Project Title: Imperial Kehl
Location Code: IMPRGR51
Location Coordinates: N26.343744, W-81.777744
Location Description: Leitner Creek @ Goodwin; downstream side
Sample Collection Time: 9:25
Lab ID# AE80190

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE80190
@NP	1	1L	PE	N/A	AE80190
@NPFIL	1	250mL	PE	N/A	AE80190
@H2SO4	1	250mL	PE	No	AE80190
@HNO3	1	250mL	PE	No*	AE80190
@TOC	1	40mL	CG	Yes***	AE80190
@BACT	1	100mL	PP	Yes**	AE80190

Sample Collectors: Liza Rollins & Garrett Kusienski

Date: 3/23/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

3	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	21.85	1608	24.80	2.17	7.04	0.100	10.32	0.4	0.8
Qualifiers						U			

SAMP = Regular Sample

PP = Polypropylene

FB = Field Blank

PE = Polyethylene

FCEB = Field Cleaned

CG = Clear Glass

Equipment Blank

G = Grab

SWF = Surface Water Fresh

GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

9 Flow MDL

9 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWF

Equipment Used

YSI Data Logger/Sonde #

J

Calibrated: 3/23/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter #

2C

Distance Measuring Tool ID#

491

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881

Exp Date:

6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

☒ DFTOSTWS taken from middle of bridge

☒ Samples submerged in ice within 15min.

☒ Samples preserved with Sulfuric Acid acidified in field within 15min.

☒ Filtered sample filtered on site

☒ Equipment & Bottles cleaned according to DEP
FC1000 and LCEL Field Sampling Quality Manual

☒ Velocity not detectable and/or is lower than MDL

☐ Acidified samples pH verified in field (quarterly)

Quarterly Months: January, April, July, October

☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200118	12/31/2049
TOC H ₂ SO ₄	25122000	3/17/2022

MISC:

Signature of Sample Collector(s):





Project Title: Imperial Kehl
Location Code: IMPRGR41
Location Coordinates: N26.338919, W-81.786250
Location Description: Oak Creek @ Pennsylvania; downstream side

Sample Collection Time: 9:41
Lab ID# AE80191

Sample Collectors: Liza Rollins & Garrett Kusienski

Date: 3/23/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE80191
@NP	1	1L	PE	N/A	AE80191
@NPFIL	1	250mL	PE	N/A	AE80191
@H2SO4	1	250mL	PE	No	AE80191
@HNO3	1	250mL	PE	No*	AE80191
@TOC	1	40mL	CG	Yes***	AE80191
@BACT	2	100mL	PP	Yes**	AE80191

4	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	21.09	4122	34.80	3.06	7.20	0.100	11.58	0.5	1.0
Qualifiers						U			

SAMP = Regular Sample PP = Polypropylene
FB = Field Blank PE = Polyethylene
FCEB = Field Cleaned CG = Clear Glass
Equipment Blank G = Grab
SWF = Surface Water Fresh GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

11 Flow MDL:

11 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger/Sonde #

J

Calibrated: 3/23/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter # 2C

Distance Measuring Tool ID# 491

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

☒ DFTOSTWS taken from middle of bridge

☒ Samples submerged in ice within 15min.

☒ Samples preserved with Sulfuric Acid acidified in field within 15min.

☒ Filtered sample filtered on site

☒ Equipment & Bottles cleaned according to DEP
FC1000 and LCEL Field Sampling Quality Manual

☒ Velocity not detectable and/or is lower than MDL

☐ Acidified samples pH verified in field (quarterly)

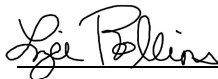
Quarterly Months: January, April, July, October

☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200118	12/31/2049
TOC H ₂ SO ₄	25122000	3/17/2022

MISC:

Signature of Sample Collector(s):





Project Title: Imperial Kehl
Location Code: IMPRGR30
Location Coordinates: N26.338792, W-81.804903
Location Description: Imperial River upstream of US 41 @ boat ramp

Sample Collection Time: 10:01
Lab ID# AE80192

Sample Collectors: Liza Rollins & Garrett Kusienski

Date: 3/23/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE80192
@NP	1	1L	PE	N/A	AE80192
@NPFIL	1	250mL	PE	N/A	AE80192
@H2SO4	1	250mL	PE	No	AE80192
@HNO3	1	250mL	PE	No*	AE80192
@TOC	1	40mL	CG	Yes***	AE80192
@BACT	1	100mL	PP	Yes**	AE80192

5	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	22.36	17843	56.10	4.58	7.36	-0.300	2.52	0.5	1.2
Qualifiers						I J			

SAMP = Regular Sample PP = Polypropylene
FB = Field Blank PE = Polyethylene
FCEB = Field Cleaned CG = Clear Glass
Equipment Blank G = Grab
SWF = Surface Water Fresh GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

-171 Flow MDL:

57 Flow Qualifier:

I

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger/Sonde #

J

Calibrated: 3/23/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Dipper Jr

Velocity Meter #

2C

Distance Measuring Tool ID#

491

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881

Exp Date:

6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

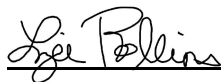
Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from end of eastern dock
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field within 15min.
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP FC1000 and LCEL Field Sampling Quality Manual
- ☐ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
- Quarterly Months: January, April, July, October
- ☒ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200118	12/31/2049
TOC H ₂ SO ₄	25122000	3/17/2022

MISC: velocity measured using a
leaf on surface it traveled
3.3 ft for 11 seconds
resulting in .3 fts

Signature of Sample Collector(s):





Project Title: Estero/Mullock

Location Code: 47A-15GR

Location Coordinates: N26.434991, W-81.810624

Location Description: Estero River Outfitters' Dock off US41

Sample Collection Time: 9:16

Lab ID# AE80680

Sample Collectors: Bret O'Brien

Date: 3/23/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

4	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	20.77	3640	43.60	3.86	7.27	0.100	1.50	0.20	0.40
Qualifiers						U			

SAMP = Regular Sample
FB = Field Blank
FCEB = Field Cleaned
Equipment Blank
SWF = Surface Water Fresh
PP = Polypropylene
PE = Polyethylene
CG = Clear Glass
G = Grab
GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

Flow MDL:

Flow Qualifier:

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 3/23/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 1B

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from top of dock
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP
FC1000 and LCEL Field Sampling Quality Manual
- ☒ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200118	12/31/2049
TOC H ₂ SO ₄	25122000	3/17/2022

MISC:

Signature of Sample Collector(s):

Bt O'Brien

Project Title: Estero/Mullock
 Location Code: 47A-4GR
 Location Coordinates: N26.435017, W-81.810450
 Location Description: Private boat ramp for Estero River off Broadway Rd
 Sample Collection Time: 9:37
 Lab ID# AE80681

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE80681
@NP	1	1L	PE	N/A	AE80681
@NPFIL	1	250mL	PE	N/A	AE80681
@H2SO4	1	250mL	PE	No	AE80681
@HNO3	1	250mL	PE	No*	AE80681
@TOC	1	40mL	CG	Yes***	AE80681
@BACT	1	100mL	PP	Yes**	AE80681

Sample Collectors: Bret O'Brien

Date: 3/23/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

5	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)	SAMP = Regular Sample	PP = Polypropylene
Field Parameters	21.22	20368	46.30	3.83	7.29	0.100	2.80	0.40	0.70	FB = Field Blank	PE = Polyethylene
Qualifiers						U				FCEB = Field Cleaned	CG = Clear Glass
										Equipment Blank	G = Grab
										SWF = Surface Water Fresh	GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

30 Flow MDL:

30 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 3/23/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 1B

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from end of dock (not lower step)
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field with
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP
- FC1000 and LCEL Field Sampling Quality Manual
- ☒ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
- Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200118	12/31/2049
TOC H ₂ SO ₄	25122000	3/17/2022

MISC: Boat launched from ramp several minutes before collection.

Signature of Sample Collector(s):

Bt O'Brien