ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1564

SAMPLE LOCATION:
Facility Name & Address: CITY OF ELKHART PW & U
Sample Site Location: CR13 / YELLOW CREEK Site #:
Collector's Initials: Grab KMY ; Composite: In Out

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐
Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow Estimated Flow NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR : ODOR
Additional description:

SAMPLE TYPE:
Grab ☒ : Month 10 Day 2 Year 02 Time 9:50 (am) / pm
Composite ☐ : *From:* Month Day Year Time am / pm
To: Month Day Year Time am / pm
Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;
Discrete ☐ : Interval Number Combined

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S:

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO_4, COD, (NH_3), O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals, Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time am / pm

Industrial Representative's Signature

H:/Forms/SARFfrnt 10/01

SAMPLE NAME CR13 / YELLOW CREEK LOG # 2002-1564

SAMPLE DATE 10/02/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	970	mg/L	10-2-02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10/3/02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	6.61	mg/L	10/7/02	Em	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.10	mg/L	10/3/02	Em	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	2300	COLONIES / 100mL	10/2/02	Em		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1505

SAMPLE LOCATION:
Facility Name & Address: CITY OF ELKHART PW&U
Sample Site Location: CR 20 / YELLOW CREEK Site #: _____
Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐
Special ☒ Routine ☐ Other ☐
Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☒ : Month 10 Day 2 Year 02 Time 9:30 (am) / pm
Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm
To: Month _____ Day _____ Year _____ Time _____ am / pm
Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;
Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO_4) COD (NH_3) O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals, Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm
Industrial Representative's Signature _____

SAMPLE NAME CR 210 LOG # 2002-1565

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	10	mg/L	10-2-02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	CF	18TH, 4500NH3 F	P or G
Phosphorus	X	0.13	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.06	mg/L	10/3/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	1450	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1567

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: DUPLICATE Site #: _____

Collector's Initials: Grab KMV ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time _____ am / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
PO$_4$, COD, NH_3, O& G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

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SAMPLE NAME DUPLICATE LOG # 2002-1567

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	13	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	cf	18TH, 4500NH3 F	P or G
Phosphorus	X	0.21	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.13	mg/L	10/4/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	960	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002 - 1568

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: CR 24 / ARLENE (YELLOW CREEK) Site #: _____

Collector's Initials: Grab _____ ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 11:30 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? **Yes** ☐ **No** ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4) COD (NH3) O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrnt 10/01

SAMPLE NAME CR 24 / ARLENE (YELLOW CREEK) LOG # 2002-1568

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	4	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	cp	18TH, 4500NH3 F	P or G
Phosphorus	X	0.12	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.07	mg/L	10/3/02		18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	770	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1575

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: CR 28 / YELLOW Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 10:30 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4) COD (NH3) O& G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30 pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfmt 10/01

SAMPLE NAME CR 28 / Yellow LOG # 2002-1575

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	15	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	0.20	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.12	mg/L	10/3/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	795	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG #: 2002 - 1568

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: CR24 / ARLENE (YELLOW CREEK) Site #: _____

Collector's Initials: Grab _____ ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 11:30 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4), COD, (NH3), O& G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrmt 10/01

SAMPLE NAME CR 24 / ARLENE (YELLOW CREEK) LOG # 2002-1568

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	4	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	0.12	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.07	mg/L	10/3/02		18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	770	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1575

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: CR 28 / YELLOW Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 10:30 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4) COD (NH3) O& G	1:1 H_2SO_4 pH <2	2 mL x 1	12/2/02	12:30 pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrmt 10/01

SAMPLE NAME CR 28 / YELLOW LOG # 2002-1575

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	15	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	0.20	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.12	mg/L	10/3/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	795	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1564

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW & U

Sample Site Location: CR13 / YELLOW CREEK Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 9:50 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO_4, COD, NH_3, O& G)	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrnt 10/01

SAMPLE NAME CR13 / YELLOW CREEK LOG # 2002-1564

SAMPLE DATE 10/02/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	970	mg/L	10-2-02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10/3/02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	6.61	mg/L	10/7/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.10	mg/L	10/3/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	2300	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002 - 1565

SAMPLE LOCATION:

Facility Name & Address: CITY OF ELKHART PW & U

Sample Site Location: CR 20 / YELLOW CREEK Site #: _____

Collector's Initials: Grab KMV ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 2 Year 02 Time 9:30 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO_4) COD (NH_3) O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/02	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrnt 10/01

SAMPLE NAME CR 26 LOG # 2002-1565

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	10	mg/L	10-2-02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10-3-02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	0.13	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.06	mg/L	10/3/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	1450	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1544

SAMPLE LOCATION:
Facility Name & Address: CITY OF ELKHART PW&U

Sample Site Location: CREEK STONE 1 Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☒ : Month 10 Day 2 Year 02 Time 11:00 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4, COD, NH3, O&G)	1:1 H_2SO_4 pH <2	2 mL x 1	10/2/12	12:30pm	EM
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

H:/Forms/SARFfrnt 10/01

SAMPLE NAME Creek Stone 1 LOG # 2002-1566

SAMPLE DATE 10/2/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	240	mg/L	10/2/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	24.2	mg/L	10/3/02	CP	18TH, 4500NH3 F	P or G
Phosphorus	X	163.37	mg/L	10/4/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	29.43	mg/L	10/4/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	60,000	COLONIES / 100mL	10/2/02	EM		
Other:							

COMMENTS: Sample was black, with septic smell, high solids

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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REPORT OF ANALYSIS

Ms. Kara M. Young
Lawson-Fisher Associates
525 West Washington Street
South Bend, IN 46601
Tel No: 234-3167
Fax No: 236-1330
PO No:
Project Name: Elkhart County 319 Grant

Report Date:	10/17/02
EIS Order No:	**021000046**
EIS Sample No:	085110
EIS Project No:	1091-1004-02
Client Sample ID:	**CR 13**
Date Collected:	10/2/02
Date Received:	10/2/02
Collected By:	K. Young

This report presents results of analysis for your sample(s) received under our Order No above. This Number is to be used in all inquiries concerning this report. The EIS Sample No above, as well as your Sample ID, refer to the first sample in a multi-sample submission

DEFINITIONS:

RDL = Reporting Detection Limit for your sample and may include adjustments for matrix interferences.
nd = Not Detected at the RDL value. If present, result is less than this value.
< = Not Detected at the numerical value shown. If present, result is less than this value.
( ) = Result is estimated due to matrix interferences.

CHAIN-OF-CUSTODY is enclosed if received with your sample submission.

DRINKING WATER CERTIFICATIONS: Chemistry = C-71-02 Bacteriology = M-76-5

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

The data in this report has been reviewed and complies with EIS Quality Control unless specifically addressed above.

SAMPLE RESULTS

Client Name: Lawson-Fisher Associates
Client Project: Elkhart County 319 Grant

Report Date: 10/17/02
EIS Order No: 021000046

EIS Lab Number	Client Description	Sample Date	Parameter	Result	Units	RDL	Test Date	Analyst ID	Method
085110	CR 13	10/2/02	Nitrogen(Kjeldahl)Total	3.8	mg/L	0.2	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	0.73	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C
085111	CR 28	10/2/02	Nitrogen(Kjeldahl)Total	1.5	mg/L	0.1	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	1.1	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C
085112	CR 26	10/2/02	Nitrogen(Kjeldahl)Total	0.98	mg/L	0.1	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	0.74	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C
085113	CR 24	10/2/02	Nitrogen(Kjeldahl)Total	2.0	mg/L	0.1	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	0.75	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C
085114	CS 1	10/2/02	Nitrogen(Kjeldahl)Total	26	mg/L	1.2	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	<0.1	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C
085115	Duplicate	10/2/02	Nitrogen(Kjeldahl)Total	2.0	mg/L	0.1	10/8/02	E03	351.2
		10/2/02	Nitrogen(Nitrate)	1.1	mg/L	0.1	10/2/02	E03	353.2
		10/2/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/3/02	E21	5540 C

CHAIN OF CUSTODY RECORD

PROJ. NO	PROJECT NAME	Total No. of Containers	Lab Order ID
	Lawson - Fisher		0210.046

SAMPLERS: (Print Name & Sign)

FIELD ID	DATE	TIME	COMP	GRAB	STATION LOCATION	Total No. of Containers	Surf. MTBAS	TKN	Nitrate					Sample Type	TAT	Lab Number
CR13	10/02/02			X	Yellow Creek / CR13	2										85110
CR28	↓			↓	↓ / CR28	↓										85111
CR26	↓			↓	↓ / CR26	↓										85112
CR24	↓			↓	↓ CR24 / Arlene	↓										85113
CS1	↓			↓	unnamed ditch - Creekstone	↓										85114
dup	↓			↓	Yellow Creek	↓										85115

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	EIS QUOTE NO:
Kara M. Lawson	10/02/02	1:45pm	S. [illegible]	
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Ship To:
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	

NOTES: 1) **If you were issued a quote number, it must appear on this document.**
2) Instructions & area for comments are on reverse side.

EIS ANALYTICAL SERVICES, INC. • 1701 NORTH IRONWOOD DRIVE SUITE B •SOUTH BEND IN 46635 • Phone (574)277–0707 • Fax (574)273–5699

Form: Chain–of–Custody (6–12–97)

Form Completion Instructions

1. Each slanted line represents specific container types from which specific tests are conducted. Use additional record sheets if # of samples or # of tests exceed allotted spaces.
2. List tests (per container type) on the slanted lines & give # of containers in boxes below tests.
3. Sum all containers and place in column labeled Total No. Containers.
4. For the column labeled Sample Type, give brief description such as soil, MW, oil, etc.
5. For column labeled TAT use one of the following:

Request	Meaning
Normal	2 4 weeks for written report based entirely on test complexity and number of samples
1 week	In general, prior authorization is required from the lab to request a 5 day turnaround time. Surcharges may or may not be applicable, depending entirely on test complexity.
3 days	Must have been authorized by the Lab and increased costs must have been authorized by the client.
1 day	Must have been authorized by the Lab and increased costs must have been authorized by the client.

Submission Comments

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 10/30/2002

Time: 8:45 hrs.

Crew: KMY, DEG

Weather: Cool

Ambient Temp.: 45°

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: Yellow Creek

Site Location: CR 24 / Arlene drive

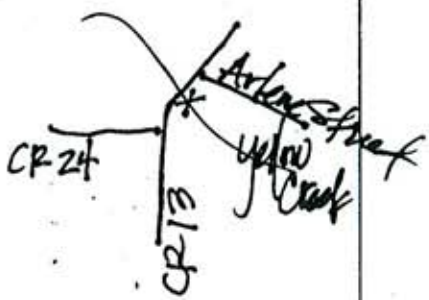
Width (ft.): 15' - 20' MAX

Depth (ft.): DTW = DTB = 0.5 - 1.0'

GPS ID No.:

Location Sketch

C.R. 24 Facing SE



SAMPLE INFORMATION

pH: 8.05

Temp (°C): 6.0

Cond. (µS): 720

TDS (ppm): 367

Color: clear, slightly cloudy

D.O. (m): 8.19 (mg/L) 69.4 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1576 duplicate

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 10/30/2007

Time: 9:10 hrs.

Crew: KMY, DEG

Weather: Cloudy

Ambient Temp.: 45

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: Yellow Cr.

Site Location: CR26

Width (ft.): 0.5-1.5'

Depth (ft.): DTW = 15' DTB =

GPS ID No.:

Location Sketch

C.R. 26 Facing North

SAMPLE INFORMATION

pH: 7.88

Temp (°C): 6.2

Cond. (µS): 715

TDS (ppm): 364

Color: clear

D.O. (m): 7.27 (mg/L) 58.7 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1577

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 10/30/2002

Time: 9:20 hrs.

Crew: Kelly, DEQ

Weather: Cloudy

Ambient Temp.: 45

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: Yellow Cr.

Site Location: CR 13

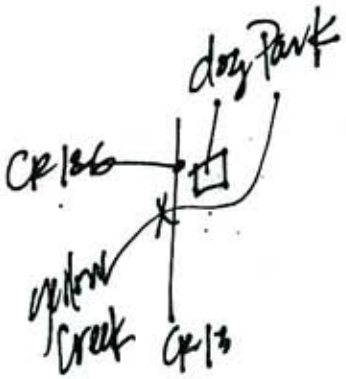
Width (ft.): 30' MAX

Depth (ft.): DTW = 1' DTB =

GPS ID No.:

Location Sketch

C.R. 13 Facing West



SAMPLE INFORMATION

pH: 7.94

Temp (°C): 6.4

Cond. (µS): 719

TDS (ppm): 367

Color: Clear

D.O. (m): 7.86 (mg/L) 65.1 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1578

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 10/30/2002

Time: 9:40 AM

Crew: Kelly, DEG

Weather: Cloudy

Ambient Temp.: 45

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: Yellow Cr.

Site Location: CR 28

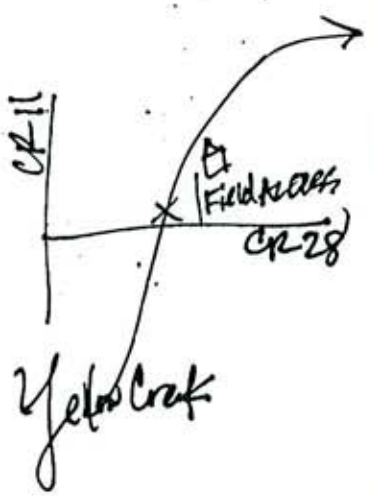
Width (ft.): 10'

Depth (ft.): DTW = 0.5'-1.0' DTB =

GPS ID No.:

Location Sketch

C.R. 28 Facing North



SAMPLE INFORMATION

pH: 8.02

Temp (°C): 6.2

Cond. (µS): 726

TDS (ppm): 370

Color: clear

D.O. (m): 9.06 (mg/L) 72.5 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1579

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 10/30/2002

Time: 10:00 AM

Crew: KMW, BSG

Weather: Cloudy

Ambient Temp.: 45

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: ditch

Site Location: CR126 ditch (Crackstone)

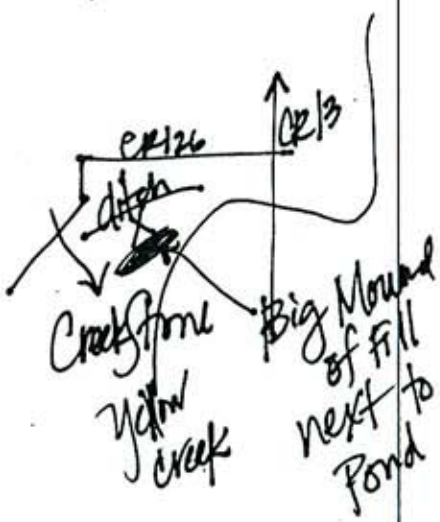
Width (ft.):

Depth (ft.): DTW = DTB =

GPS ID No.:

Location Sketch

C.R. 126 Facing North



SAMPLE INFORMATION

pH: 7.20

Temp (°C): 10.3

Cond. (µS): 3223

TDS (ppm): 1643

Color: black

D.O. (m): 2.8 (mg/L) 17.5(%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1550

Comments: Much less liquid today! Maybe 4-6" in depth maximum. Surface area is half the size as usual. Very Black, humus type soil

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

CHAIN OF CUSTODY RECORD

PROJ. NO	PROJECT NAME
200132.00	EIC 319 Grant

SAMPLERS: (Print Name & Sign)

FIELD ID	DATE	TIME	COMP	GRAB	STATION LOCATION	Total No. of Con-tainers	NO3, TKN, Surfactants	Sample Type	TAT	Lab Order ID / Lab Number
	10/30	8:45		X	CR24	2	2			
		9:10			CR26					
		9:20			CR13					
		9:40			CR28					
		10:0			CR126					
					dup					

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	EIS QUOTE NO:
	10/30/97	1:25pm		
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Ship To:
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	

NOTES: 1) **If you were issued a quote number, it must appear on this document.**
2) **Instructions & area for comments are on reverse side.**

EIS ANALYTICAL SERVICES, INC. • 1701 NORTH IRONWOOD DRIVE SUITE B •SOUTH BEND IN 46635 • Phone (574)277–0707 • Fax (574)273–5699

ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1580

SAMPLE LOCATION:

Facility Name & Address CITY OF ELKHART PW&U

Sample Site Location CREEK STONE 1 Site # _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 30 Year 02 Time 10:00 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4), COD, (NH3), O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10/30/02	11:20am	DL
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

SAMPLE NAME CREEK STONE 1 LOG # -1580

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	260	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	32.6	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	37.17	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	27.80	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	52000	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: * SAMPLE WAS BLACK WITH SEPTIC ODOR.

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1677

SAMPLE LOCATION:
Facility Name & Address: CITY OF ELKHART PW:U

Sample Site Location: DUPLICATE Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☒ : Month 10 Day 30 Year 02 Time _____ am / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
PO_4, COD, NH_3, O& G	1:1 H_2SO_4 pH <2	2 mL x 1	10/30/02	11:20am	BA
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

SAMPLE NAME Duplicate LOG # 1677

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	5	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	0.20	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.04	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	3800	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1579

SAMPLE LOCATION:
Facility Name & Address CITY OF ELKHART PW&U

Sample Site Location CR 28 / YELLOW Site # _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☑ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☒ : Month 10 Day 30 Year 02 Time 9:40 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
PO_4, COD, NH_3, O& G	1:1 H_2SO_4 pH <2	2 mL x 1	10-30-02	11:20 am	BL
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

SAMPLE NAME CR 28/YELLOW LOG # 1579

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	5	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	0.18	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.06	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	230	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1578

SAMPLE LOCATION:

Facility Name & Address: City of Elkhart PW&U

Sample Site Location: CR13 / Yellow Creek Site #: _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐

If no, describe: COLOR _____ : ODOR _____

Additional description: _____

SAMPLE TYPE:

Grab ☒ : Month 10 Day 30 Year 02 Time 9:20 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐

CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
(PO4), COD, (NH3), O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10-30-02	11:20 am	BL
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

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SAMPLE NAME CR13/Yellow Ck LOG # -1578

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	7	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	~0.1	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	0.28	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.21	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	385	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1577

SAMPLE LOCATION:
Facility Name & Address City OF ELKHART PW&U
Sample Site Location CR 26 / YELLOW CK Site # _____
Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐
Special ☒ Routine ☐ Other ☐
Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☐ : Month 10 Day 30 Year 02 Time 9:10 (am) / pm
Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm
To: Month _____ Day _____ Year _____ Time _____ am / pm
Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;
Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? Yes ☐ No ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
PO4, COD, NH3, O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10-30-02	11:20 am	B4
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm
Industrial Representative's Signature _____

SAMPLE NAME CR 26 / YELLOW CREEK LOG # -1577

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	6	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	0.21	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.04	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	390	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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ELKHART PUBLIC WORKS & UTILITIES
LABORATORY
SAMPLE / ANALYTICAL REPORT FORM

NPDES PERMIT
IN0025674

SAMPLE LOG # 2002-1576

SAMPLE LOCATION:
Facility Name & Address CITY OF ELKHART PW&U

Sample Site Location CR 24 / ARLENE (YELLOW CK) Site # _____

Collector's Initials: Grab KMY ; Composite: In _____ Out _____

PURPOSE: Scheduled ☐ Demand ☐ Unscheduled ☐

Special ☒ Routine ☐ Other ☐

Discharge: Measured Flow _____ Estimated Flow _____ NA ☐

SAMPLE CONDITION: Is this typical for this site: YES ☐ NO ☐
If no, describe: COLOR _____ : ODOR _____
Additional description: _____

SAMPLE TYPE:
Grab ☐ : Month 10 Day 30 Year 02 Time 8:45 (am) / pm

Composite ☐ : *From:* Month _____ Day _____ Year _____ Time _____ am / pm

To: Month _____ Day _____ Year _____ Time _____ am / pm

Time Proportional ☐ ; Flow Proportional ☐ ; Continuous ☐ ;

Discrete ☐ : Interval _____ Number Combined _____

Seals Intact? **Yes** ☐ **No** ☐
CUSTODY SEAL SERIAL #'S: _____ _____ _____ _____

PRESERVATION: Refrigerated in field? Yes ☐ No ☐

Analysis	Preservation	Amount	Date	Time	Analyst
PO4, COD, NH3, O&G	1:1 H_2SO_4 pH <2	2 mL x 1	10-30-02	11:20 am	BA
Metals , Mercury	HNO_3 pH <2	3 mL x			
Cyanide	NaOH pH >12	5 mL x			
		mL			
		mL			

SPLIT SAMPLE: Yes ☐ No ☐ If yes: Date & Time _____ am / pm

Industrial Representative's Signature _____

SAMPLE NAME CR 24 / ARLENE LOG # -1576

SAMPLE DATE 10/30/02

ANALYSIS REQUESTED	X	RESULT	UNITS	ANALYSIS DATE	ANALYST	METHOD	CONTAINER
pH			S.U.			EPA 150.1	P or G
cBOD5			mg/L			18TH, 5210B	P or G
TSS	X	4	mg/L	10/30/02	BA	EPA 160.2	P or G
VSS			mg/L			EPA 160.2	P or G
COD			mg/L			Hach	P or G
TS			mg/L			18TH, 2540G	P or G
VS			mg/L			18TH, 2540G	P or G
Cyanide			mg/L			18TH, 4500CN B,E	P or G
Arsenic			mg/L			18TH, 3120B	P or G
Copper			mg/L			18TH, 3500Cu B	P or G
Cadmium			mg/L			18TH, 3500Cd B	P or G
Chromium			mg/L			18TH, 3500Cr B	P or G
Zinc			mg/L			18TH 3500Zn B	P or G
Nickel			mg/L			18TH, 3500Ni B	P or G
Silver			mg/L			18TH 3500Ag B	P or G
Lead			mg/L			18TH, 3500Pb B	P or G
Mercury			mg/L			18TH, 3500Hg B	P or G
Ammonia	X	<0.1	mg/L	10.31.02	LMH	18TH, 4500NH3 F	P or G
Phosphorus	X	0.28	mg/L	11/1/02	EM	18TH, 4500P E 4500P, B5	P or G
Ortho PO4	X	0.05	mg/L	10/31/02	EM	18TH, 4500	P or G
Phenol			mg/L			18TH, 5530C	P or G
O & G			mg/L			18TH, 5520B	G only
VOC			mg/L			EPA 624/625	G only
BNA			mg/L			EPA 624/625	G only
E Coli	X	2600	COLONIES / 100mL	10/30/02	EM		
Other:							

COMMENTS: _____

O.K. TO DISPOSE
INITIALS / DATE _____

DISPOSED BY
INITIALS / DATE _____

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REPORT OF ANALYSIS

Ms. Kara M. Young
Lawson-Fisher Associates
525 West Washington Street
South Bend, IN 46601
Tel No: 234-3167
Fax No: 236-1330
PO No: 200132.00
Project Name: Elkhart County 319 Grant

Report Date:	11/14/02
EIS Order No:	**021000281**
EIS Sample No:	085592
EIS Project No:	1091-1004-02
Client Sample ID:	**CR 24**
Date Collected:	10/30/02
Date Received:	10/30/02
Collected By:	K. Young

This report presents results of analysis for your sample(s) received under our Order No above. This Number is to be used in all inquiries concerning this report. The EIS Sample No above, as well as your Sample ID, refer to the first sample in a multi-sample submission

DEFINITIONS:

RDL = Reporting Detection Limit for your sample and may include adjustments for matrix interferences.
nd = Not Detected at the RDL value. If present, result is less than this value.
< = Not Detected at the numerical value shown. If present, result is less than this value.
( ) = Result is estimated due to matrix interferences.

CHAIN-OF-CUSTODY is enclosed if received with your sample submission.

DRINKING WATER CERTIFICATIONS: Chemistry = C-71-02 Bacteriology = M-76-5

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

The data in this report has been reviewed and complies with EIS Quality Control unless specifically addressed above.

SAMPLE RESULTS

Client Name: Lawson-Fisher Associates
Client Project: Elkhart County 319 Grant

Report Date: 11/14/02
EIS Order No: 021000281

EIS Lab Number	Client Description	Sample Date	Parameter	Result	Units	RDL	Test Date	Analyst ID	Method
085592	CR 24	10/30/02	Nitrogen(Kjeldahl)Total	0.78	mg/L	0.1	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	1.1	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/31/02	E21	5540 C
085593	CR 26	10/30/02	Nitrogen(Kjeldahl)Total	0.32	mg/L	0.1	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	1.1	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/31/02	E21	5540 C
085594	CR 13	10/30/02	Nitrogen(Kjeldahl)Total	0.39	mg/L	0.1	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	1.3	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/31/02	E21	5540 C
085595	CR 28	10/30/02	Nitrogen(Kjeldahl)Total	0.40	mg/L	0.1	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	1.5	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/31/02	E21	5540 C
085596	CR 126	10/30/02	Nitrogen(Kjeldahl)Total	32	mg/L	0.6	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	<0.1	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	2.7	mg/L	0.1	10/31/02	E21	5540 C
085597	Duplicate	10/30/02	Nitrogen(Kjeldahl)Total	0.46	mg/L	0.1	11/5/02	E03	351.2
		10/30/02	Nitrogen(Nitrate)	1.1	mg/L	0.1	10/30/02	E03	353.2
		10/30/02	Surfactants (MBAS)	<0.1	mg/L	0.1	10/31/02	E21	5540 C

QUALITY CONTROL DATA

LABORATORY FORTIFIED METHOD BLANK (LFB)

Matrix: Water

Test:

Run Date:

EIS Lab #s With This LFB

85592-85597

Comments Concerning This LFB:

Parameter	Spike Amount	Matrix Spike		Duplicate Spike		RPD	Quality Control Limits				QC Batch
							RPD		% R		
		Result	% R	Result	% R		LCL	UCL	LCL	UCL	
Nitrogen(Nitrate)	23.1	22.911	99	22.489	97	2	0	20	80	120	QB01975
Nitrogen(Kjeldahl)Total	2.4	2.344	98	2.323	97	1	0	20	80	120	QB01994

LEGEND:

1. The LFB may be either a single spike or in dulicate and may or may not be in a QC Batch with a MS/DMS.
2. % R = Percent Recovery of Spike
3. RPD = Relative Percent Difference of the spike recoveries
4. LCL = Lower Control Limit
5. UCL = Upper Control Limit
6. Units are normally those shown in the Analysis Report and are always the same for the Spike and Duplicate Spike

QUALITY CONTROL DATA

METHOD BLANK RESULTS

Test:

Matrix: Water

EIS Lab Numbers: 85592-85597

Comments :

Parameter	Result	Units	Date Analyzed	QC Batch	Detection Limit
Nitrogen(Nitrate)	<0.1	mg/L	10/30/02	QB01975	0.1
Surfactants (MBAS)	<0.1	mg/L	10/31/02	QB01984	0.1
Nitrogen(Kjeldahl)Total	<0.1	mg/L	11/5/02	QB01994	0.1

QUALITY CONTROL DATA

MATRIX SPIKE / DUPLICATE MATRIX SPIKE (MS/DMS)

EIS Order: 021000281
QC Sample: 085597
Matrix: Water
Test:

EIS Lab #s in This Batch: 85592-85597

Comments Concerning This QC Batch:

Parameter	Back-ground	Spike Amount	Matrix Spike		Duplicate Spike		RPD	Quality Control Limits RPD		Quality Control Limits % R		QC Batch
			Result	% R	Result	% R		LCL	UCL	LCL	UCL	
Nitrogen(Nitrate)	1.1	5	5.711	92	5.869	95	3	0	20	75	125	QB01975
Nitrogen(Kjeldahl)Total	0.46	5	5.1	93	5.169	94	1	0	20	75	125	QB01994

LEGEND:

1. Background = Sample Result
2. Spike amount may be adjusted for dilution used in sample analysis
3. % R = Percent Recovery of Spike
4. RPD = Relative Percent Difference of the spike recoveries
5. LCL = Lower Control Limit
6. UCL = Upper Control Limit
7. Units are normally those shown in the Analysis Report and are always the same for the Background and Spike

QUALITY CONTROL DATA

REPLICATE ANALYSIS - SEPARATE DIGESTIONS / EXTRACTIONS

EIS Order: 021000281
QC Sample: 085597
Matrix: Water

Comments Concerning This Analysis:

Parameter	Units	Original Analysis	Replicate Analysis	RPD	Advisory QC Limits	QC Batch
Nitrogen(Nitrate)	mg/L	1.1	1.131	2.8	0 - 20	QB01975
Surfactants (MBAS)	mg/L	<0.1	<0.1	0.0	0 - 20	QB01984
Nitrogen(Kjeldahl)Total	mg/L	0.46	0.546	17.1	0 - 20	QB01994

LEGEND:

1. RPD = Relative Percent Difference
2. Advisory QC Limits may not be applicable when results are close to the Sample Detection Limits.

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: Dec 18 / 2002

Time: 12:00pm

Crew: KMY, AMM

Weather: Rainy

Ambient Temp.: 55°

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: ditch

Site Location: CR 126 ditch (Creekstone)

Width (ft.):

Depth (ft.): DTW = DTB =

GPS ID No.:

Location Sketch

C.R. 126 ditch Facing North

SAMPLE INFORMATION

pH: 7.32

Temp (°C): 7.5°

Cond. (µS): 376

TDS (ppm): 191

Color:

D.O. (m): 8.12 (mg/L) 68.1 (%)

Sample Type: Kemmerer Grab

Sample Number(s):

Bottle Numbers: 2002-1590

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Kara Gruvny	12/18/02	3:15 PM	David [illegible]	12.18.02	1515
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

Rev. 11/5/01

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 219-234-3167
FAX 219-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 319 Grant

Job Number: 200132

Date: 12/18/2002

Time: 0:30 PM

Crew: KMY, AMM

Weather: Rainy

Ambient Temp.: 50

STREAM INFORMATION

Watershed ID: Yellow Creek

Stream Name: Yellow Creek

Site Location: CR 24 / Arfese drive

Width (ft.):

Depth (ft.): DTW = DTB =

GPS ID No.

Location Sketch

C.R. 24 Facing SE

SAMPLE INFORMATION

pH: 8.57

Temp (°C): 3.9°

Cond. (µS): 796

TDS (ppm): 404

Color:

D.O. (m): 7.55 (mg/L) 61.9 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s):

Bottle Numbers: 2002-1586

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Kyla Young	12/18/02	3:15pm	[signature]	12.18.02	1515
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		