

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7118
Exam Date: 4/19/2019

1. Current Owner:
JEFF ALDER 440 S MAIN MALAD CITY ID 83252
JENNIE ALDER 440 S MAIN MALAD CITY ID 83252

2. Accompanied by: Logan Alder
Phone No: (208) 766-3187

Relationship to permit Holder: Son/Ranch Operator

3. **SOURCE:**
TWO MILE CREEK

Tributary
SINKS

Method of Determination: USGS Topographic Map

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
15-2073	Deep Creek	Irrigation	License

Deep Creek Irrigation Company shares used on property, overlap all but the 6 acre field in the NE of Lot 2 (NWNE), Section 3.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

TWO MILE CREEK NW¼ SE¼, Sec. 35, Twp 14S, Rge 36E, B.M. ONEIDA County
TWO MILE CREEK NW¼ NE¼, Sec. 3, Twp 15S, Rge 36E, B.M. ONEIDA County

Method of Determination: Site visit, gps, and ArcMap

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	36E	3		30	36		29			30						36			161.0

Total Acres: 161.0

Method of Determination: Meeting with appropriator, and ArcMap

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
1:24,000 or greater.

Aerial Photo Attached (required for irrigation of 10+ acres).

_____ Photo of Diversion and System Attached

4. Diversion Information: Under lowflow conditions: Pipeline from river to reservoir, pipeline from reservoir to POU. High flow conditions: Stream channel to ditches.

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

161.0 acres * 3.5 AFA Field headgate requirement/year = 563.5 AF/year

G. NARRATIVE/REMARKS/COMMENTS

This water right is for the entire flow of Two Mile Creek.

The system operates in one of two ways, depending on stream flow. High or low stream flow is subjective, decided by the appropriator.

During times of high flow, the water is left in the original stream channel until it reaches the appropriator's property, which is the point of diversion in Lot 2 (NWNE) of Section 3. From there it goes into ditches. A series of ditches can make use of the entire stream. There is a primary ditch, and an overflow ditch for times of abnormally high flow. The overflow ditch can deliver water to the fields in the W ½ SE ¼ of Section 3.

For times of low flow, the water right owner has developed a reservoir to capture the stream's entire discharge. Water is piped into the reservoir from the stream channel in the NWSW of Section 35. The reservoir holds less than 6.4 AF, the 24 hour diversion for the water right. Water is then piped out of the reservoir to the place of use. That pipe remains close to the stream channel until just west of the freeway. After crossing under the freeway, the pipe

turns southwest and crosses three separate property owners' fields (with an easement) enroute to the appropriator's property. Once entering the appropriator's property, the pipe feeds into a series of wheelines, pressurized by the head from the elevation of the reservoir.

Proof of beneficial use received 36 days late. Priority date advanced 37 days, from 1/19/1990 to 2/25/1990.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	3.22 CFS	563.5 AF
<u>Totals:</u>		3.22 CFS	563.5 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

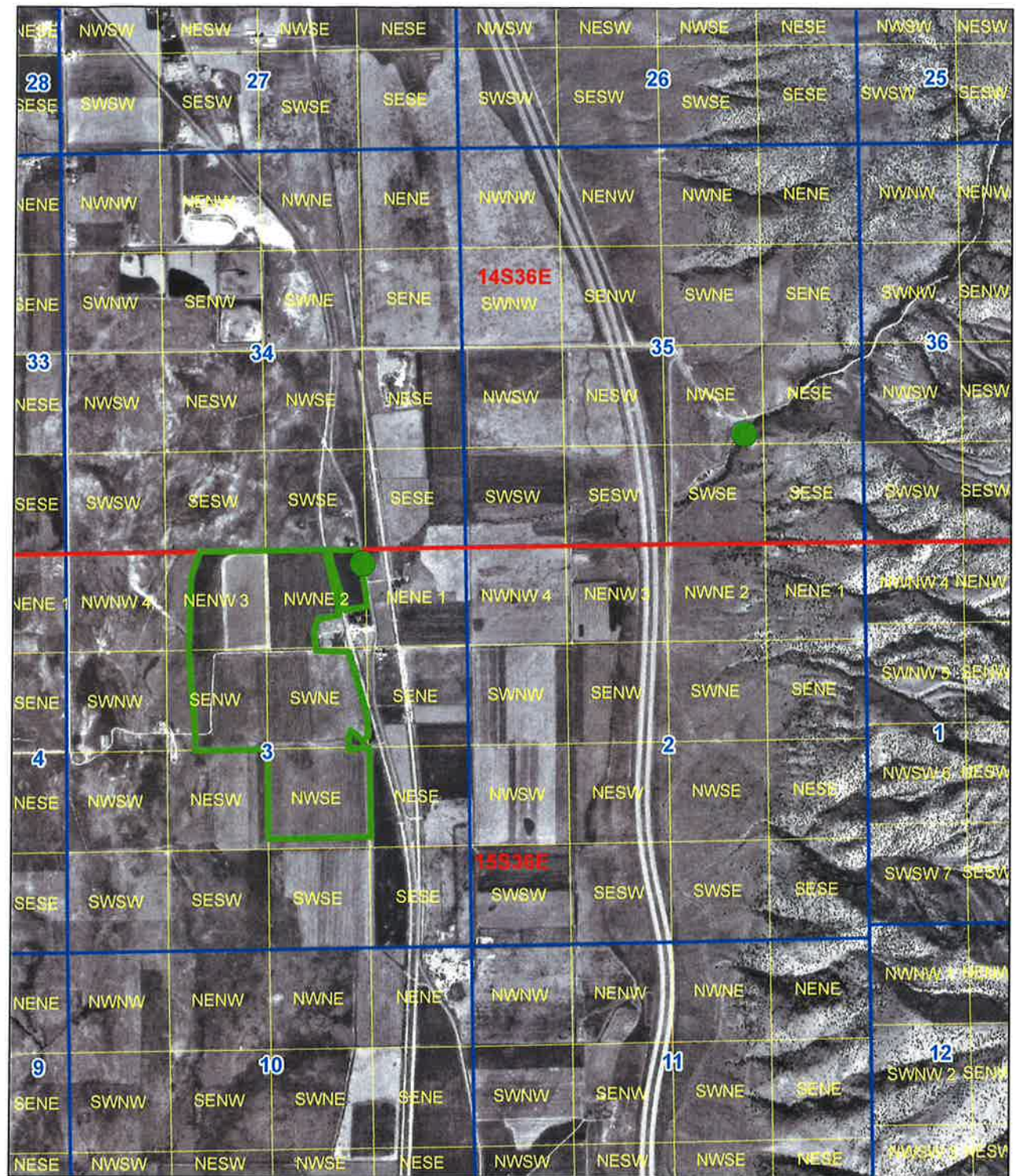
I. AUTHENTICATION

Cooper Fritz - Eastern Region: Water Resource Agent, Senior

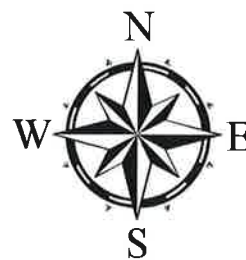
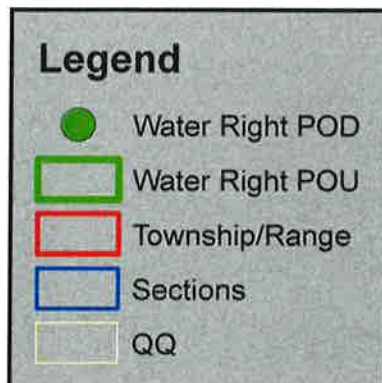
Field Examiner's Name _____ Date _____

Reviewer James Cefalo _____ Date _____

15-7118 Place of use and Points of Diversion at Licensing

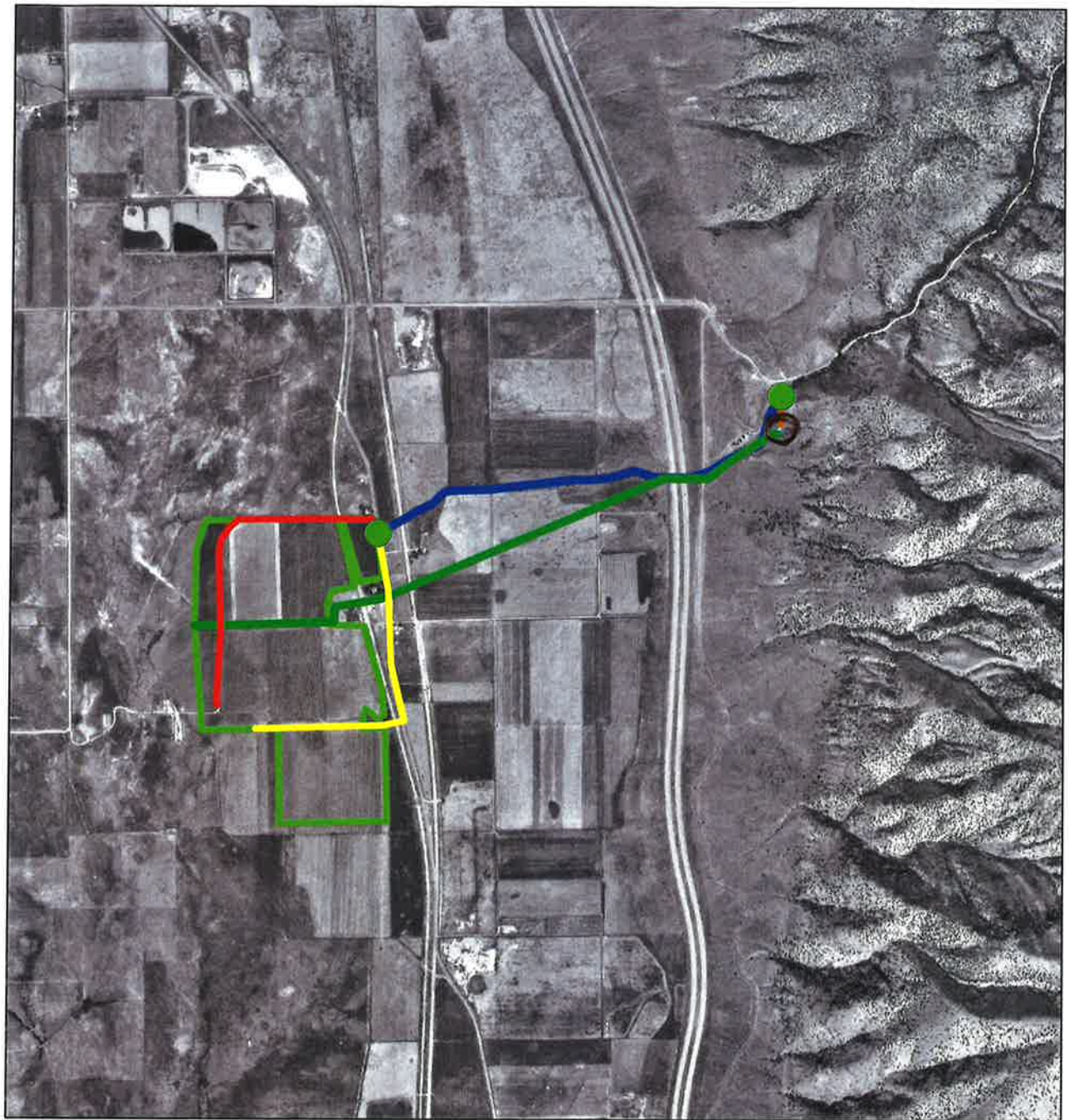


1992 - 2000 Aerial Photography



0 0.3 0.6 1.2 Miles

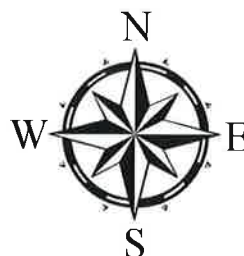
15-7118 Place of use and Points of Diversion at Licensing



1992 - 2000 Aerial Photography

Legend

-  Water Right POD
-  Main_Ditch
-  Overflow_Ditch
-  Pipeline_from_Reservoir
-  Pipeline_to_Reservoir
-  Stream_Channel
-  Reservoir
-  Water Right POU



0 0.3 0.6 1.2 Miles

Storage Pond



State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 15-07118

Proposed Priority: January 19, 1990 Maximum Diversion Rate: 3.22 CFS
This is to certify, that JEFF ALDER

JENNIE ALDER
440 S. MAIN
MALAD, ID 83252

has applied for a permit to appropriate water from:

TWO MILE CREEK tributary of SINKS

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	04/01 to 11/01	3.22 CFS

LOCATION OF POINT(S) OF DIVERSION: SWSE Sec. 35, Township 14S, Range 36E
ONEIDA County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
15S	36E	3	NWNE 39	SWNE 38	NENW 40	161
			NWNW 8	SWNW 4	SENE 32	

Adding NW SE

Total number of acres irrigated: 161

CONDITIONS/REMARKS:

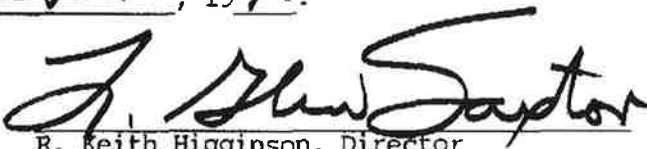
1. Proof of construction of works and application of water to beneficial use shall be submitted on or before October 1, 1991.
2. Subject to all prior water rights.
3. A measuring device of a type approved by the Department shall be permanently installed and maintained as part of the diverting works.
4. The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this

5th day of September, 1990.

MICROFILMED

SEP 25 1990

for 
R. Keith Higginson, Director

Discharge Measurement Summary

Date Generated: Tue Jun 4 2019

File Information

File Name 1ALD.WAD
Start Date and Time 2019/04/23 11:43:30

Site Details

Site Name
Operator(s) CC

System Information

Sensor Type FlowTracker
Serial # P4819
CPU Firmware Version 3.9
Software Ver 2.30
Mounting Correction 0.0%

Units (Metric Units)

Distance m
Velocity m/s
Area m²
Discharge m³/s

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.6%	3.8%
Velocity	2.3%	20.5%
Width	0.2%	0.2%
Method	3.2%	-
# Stations	5.1%	-
Overall	6.6%	20.8%

Summary

Averaging Int. 40 # Stations 10
Start Edge LEW Total Width 2.073
Mean SNR 51.1 dB Total Area 0.229
Mean Temp 8.86 °C Mean Depth 0.110
Disch. Equation Mid-Section Mean Velocity 0.4595

Total Discharge 0.1050

3.71 cfs ✱

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	11:43	0.64	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	11:43	0.88	0.6	0.183	0.6	0.073	0.4445	1.00	0.4445	0.045	0.0198	18.9
2	11:45	1.13	0.6	0.165	0.6	0.066	0.7352	1.00	0.7352	0.040	0.0295	28.1
3	11:46	1.37	0.6	0.128	0.6	0.051	0.4169	1.00	0.4169	0.031	0.0130	12.4
4	11:48	1.62	0.6	0.091	0.6	0.037	0.6094	1.00	0.6094	0.022	0.0136	12.9
5	11:50	1.86	0.6	0.107	0.6	0.043	0.6071	1.00	0.6071	0.026	0.0158	15.0
6	11:51	2.10	0.6	0.116	0.6	0.046	0.0826	1.00	0.0826	0.028	0.0023	2.2
7	11:52	2.35	0.6	0.107	0.6	0.043	0.4216	1.00	0.4216	0.026	0.0110	10.4
8	11:54	2.59	0.6	0.055	0.6	0.022	-0.0012	1.00	-0.0012	0.010	0.0000	0.0
9	11:54	2.71	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

Discharge Measurement Summary

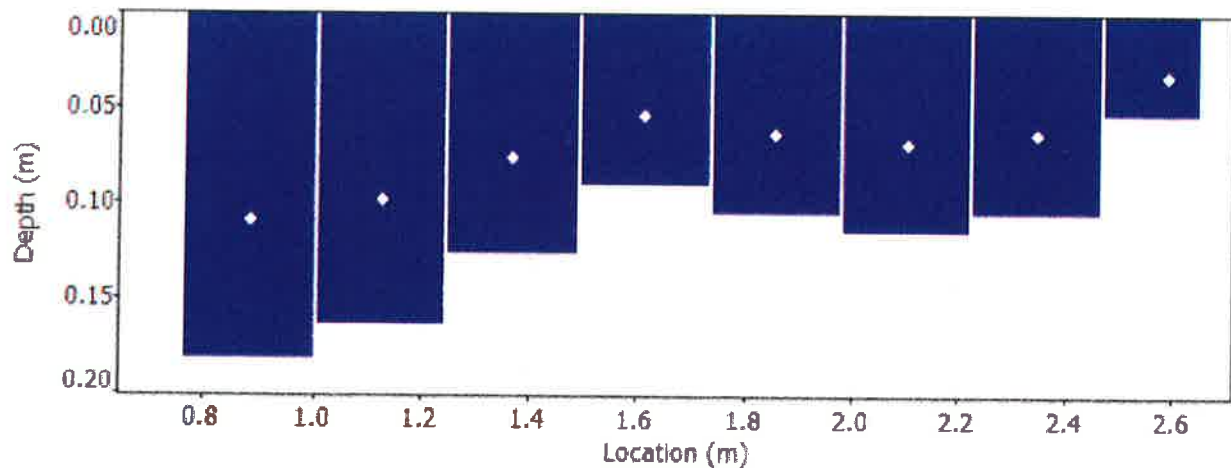
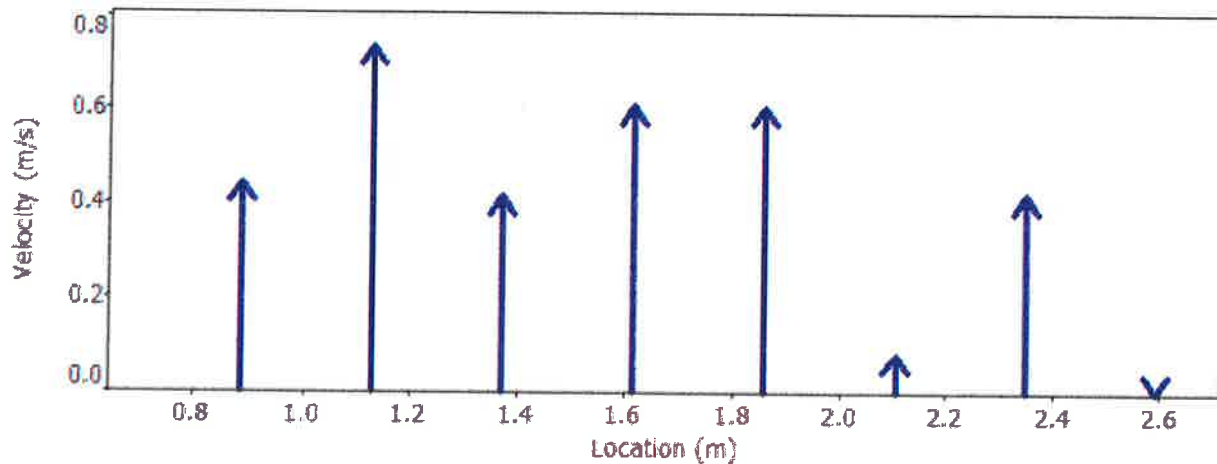
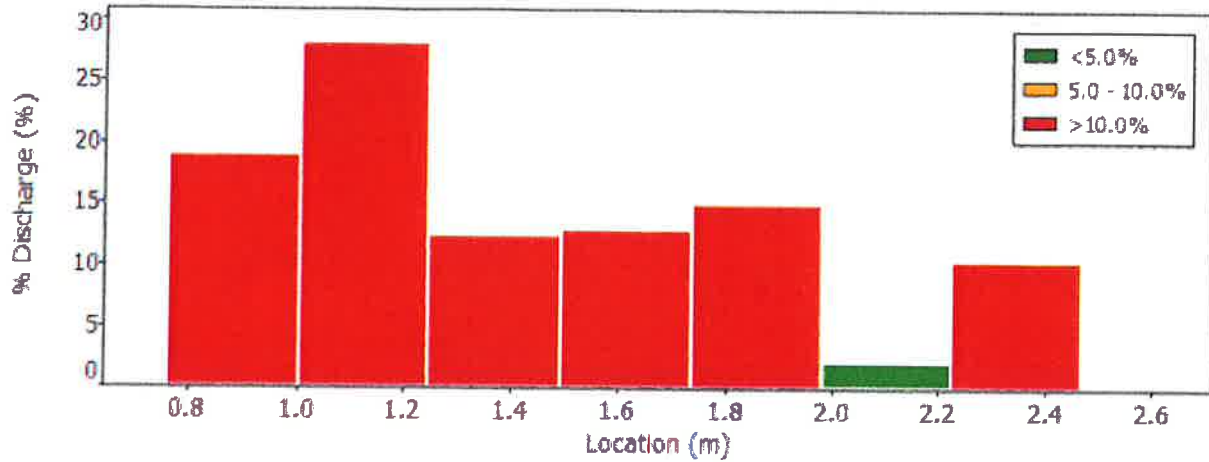
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Site Details

Site Name
Operator(s) CC



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Quality Control

St	Loc	%Dep	Message
3	1.37	0.6	High angle: 29
6	2.10	0.6	High standard error: 0.031
7	2.35	0.6	High standard error: 0.030