

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-10071
Exam Date: 7/24/2015

1. Current Owner:
MARK CORRAO 1231 HATTER CREEK RD PRINCETON ID ~~838857~~ ⁸³⁸⁵⁷ (208) 310.6732 (office)
And/Or
TIFFANY CORRAO 1231 HATTER CREEK RD PRINCETON ID ~~838857~~ ⁸³⁸⁵⁷ (208) 310.6732
2. Accompanied by: MARK CORRAO 1231 HATTER CREEK RD PRINCETON ID ~~838857~~ ⁸³⁸⁵⁷
Phone No: (208) 310.6732
Address: 1231 HATTER CREEK RD PRINCETON ID 838857 (208) 310.6732 (office)
Relationship to Permit Holder: Co-Permit Holder / Co-Applicant

3. SOURCE:
LONG CREEK

TRIBUTARY:
HATTER CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point-of-diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

A four stroke, portable, lightweight, 10 Horsepower (HP) WATERAX Inc. MARK-3® centrifugal fire pump or a two stroke Homelite Textron pump is used to draw water from Long Creek to fill an excavated .425 acre pond adjacent to the Creek. The pond can also be filled by a short inlet pipe that allows water from Long Creek to gravity flow into the pond when the Creek water level is high enough.

The MARK 3 pump draws water from the pond through a screened inlet and is connected to a two-inch diameter flexible fire hose. The fire hose is used to distribute water to smaller diameter hoses that connect to portable sprinkler heads with 3/8 inch diameter nozzles that are used for Irrigation.

1. LOCATION OF POINT(S) OF DIVERSION:

LONG CREEK SE¼, SW¼ Sec. 34, Twp 41N, Rge 04W, B.M. LATAH County

Method of Determination: Map-'Moscow Mountain' U.S. Geological Survey 7.5' Quadrangle (Topographic) 1994, ArcMap™ Geographic Information System (GIS) software, Garmin GPS Receiver

Point of Diversion (Pond) GPS Coordinates -116 Degrees 50' 29.9 West Longitude, 47 Degrees 16' 59.8 North Latitude

2.

PLACE OF USE: STOCKWATER FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												X					

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												X					

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												X					

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												13.2					13.2
																			8.0

Total Acres: 13.2

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												X					

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
41N	04W	34												13.2					13.2
																			8.0

Total Acres: 13.2

DIVERSION TO STORAGE same as IRRIGATION

Method of Determination: Point of Diversion (Storage Pond) GPS Coordinates -116 Degrees 50' 29.9 West Longitude, 47 Degrees 16' 59.8 North Latitude,

Map-'Moscow Mountain' U.S. Geological Survey 7.5' Quadrangle (Topographic) 1994, ArcMap™ Geographic Information System (GIS) software,

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.

Well or Diversion ID No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Not Applicable	WATERAX Inc. MARK-3®	10	N/A	WATERAX Inc. MARK-3®	2 inch outlet
Not Applicable	Homelite Textron-Charlotte	unknown	N/A	Homelite Textron-Charlotte	1H1980154

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. (None Used: See Theoretical Measurement below)

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

2. Measurements: Theoretical

PUMP		EQUATIONS		WATER RIGHT		87-10071
HP		H in feet		Efficiency as a decimal		System pressure in PSI
Q =	HP*8.8*Eff /H	10	310.6803	0.7	10	130
Q=	0.199 cfs 89.766 GPM					

E. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

IRRIGATION (See Theoretical calculation Pg. 2) $0.199 \text{ CFS} = .20 \text{ CFS}$
 Acres ($0.02 \text{ CFS} \times 8.0 \text{ Acres}$) $= .16 \text{ CFS}$
 Permit allowed $.20 \text{ CFS}$ $= .20 \text{ CFS}$
 License for $.16 \text{ CFS}$
 STOCKWATER (Per Application Processing Memo #3) $= .02 \text{ CFS}$
 (Same for Permit)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (8.0 \text{ Acres}) \times (3.0 \text{ AF per Acre}) = 24.0 \text{ AF}$
 $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.16 \text{ CFS}) \times (214 \text{ days}) \times 1.9835 = 67.91 \text{ AF}$
 $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 24.0 \text{ AF}$

2. Volume Calculations for Other Uses:

	(IRRIG. REQUIREMENT)	(SEEP + EVAP)	
IRRIGATION STORAGE	24.0 AF	1.0 AF	= 25.0 AF
IRRIGATION FROM "	24.0 AF		24.0 AF
IRRIGATION (FROM LONG CR.)	24.0 AF		24.0 AF
STOCKWATER (PER APP. PROC. #3)			
STOCK FROM STORAGE			.3 AF
STOCKWATER STORAGE			.3 AF

G. NARRATIVE/REMARKS/COMMENTS

Exam conducted 7/24/15 with Permit Co-Owner Mark Corrao. The unlined, excavated off-stream pond, is next to Long Creek and was full with the Irrigation system in ready-to-operate condition when I arrived for the Exam. The pump is used to draw water directly from Long Creek, to fill the pond using water from the Creek, or to draw water from the pond for Irrigation or Stockwater use.

I saw a portable 10 Horsepower (HP) WATERAX Inc. MARK-3® centrifugal fire pump, with a two-inch outlet, connected to a two-inch diameter fire hose, wet from recent use, before Mr. Corrao started the system to irrigate a portion of the Irrigation Place of Use (POU). This pump was in good condition and showed evidence of being used (minor rust, dried dirt on hose & pump, wear, etc.) before being started during the Exam. Mr. Corrao also supplied a short video file to show the system operating after I completed the on-site portion of the Exam. A smaller Homelite Textron pump is available to back up the 10 HP pump.

Pond Capacity (4.2 Acre Feet) (AF) is less than shown on the Permit. The irregularly shaped pond, measuring approximately 160' x 200', receives water from Long Creek using either pump or flow entering the pond via a screened pipe inlet from the Creek when water levels are high enough. The Pond Surface Area (.425 acres) was measured using ArcMap™ and a 2015 dated air photo image. Pond Capacity is 4.25 AF due to a 10 foot average depth. The Soil Survey Class is CL. Pond dimensions remain consistent in ArcMap™ aerial images with various dates and measurements taken during the Exam.

The water system equipment is capable of meeting the .20 Cubic Feet Per Second (CFS) amount allowed under the Permit to pump water from Long Creek to the Pond (Diversion to Storage) and operating at .18 CFS within the Irrigation POU, Irrigation From Storage POU, and Stockwater From Storage POU. The Irrigation system is capable of serving the entire Permit 8.0 acre Irrigation POU and to provide Stockwater. A milk cow was seen during the Exam on the POU.

The system was observed pumping water through a 20 foot elevation gain to quickly turn four sprinklers with 3/8" nozzles. Two additional sprinklers with the same size nozzles are available for use. The sprinklers were on sloping ground at a distance of over 350 feet from the 10 HP pump at the pond. The radius of each sprinkler's beaten zone was approximately 35-40 feet. The Irrigated area is in mixed grass and young trees. Additional rolls of 2-inch diameter hose, and 1 1/2 inch diameter garden splitter hose, are used to connect to the fire hoses that were seen in use during the Exam.

No pump performance data plate, rating curve, or flow meter was found on either pump during the Exam. Information taken from two sources on the Internet (see attached) shows this model WATERAX 10 HP pump can easily deliver 90 Gallons Per Minute (.20 CFS) for Diversion To Storage and .18 CFS for simultaneous Irrigation and Stockwater use.

IDWR used a different pond analysis method for the Application than is used today. Exam results show the License should match the Application CFS amounts (.20 CFS). The recommended AF for licensing differs from the Application because 1) the Exam found a smaller pond and 2) seepage and evaporation storage amounts from the new pond methodology are smaller than in the Application pond analysis.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	01/01 to 12/31	0.16 CFS	~~24.0 AF~~
IRRIGATION STORAGE	01/01 to 12/31		25.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.20 CFS	
IRRIGATION FROM STORAGE	04/01 to 10/31	0.16 CFS	24.0 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.3 AF
STOCKWATER STORAGE	01/01 to 12/31		~~1.3 0.3 AF~~
STOCKWATER FROM STORAGE	01/01 to 12/31	0.02 CFS	0.3 AF
<u>Totals:</u>		0.200 CFS	25.30 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

Field Examiner's Name Shawn M. Mayer Date 05/23/2017

Reviewer Morgan Case Date 6/1/2017

Total Storage Calculations

FILE NUMBER	87-10071
REVIEWER	Shaun Maxey
DATE	5/23/2017

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

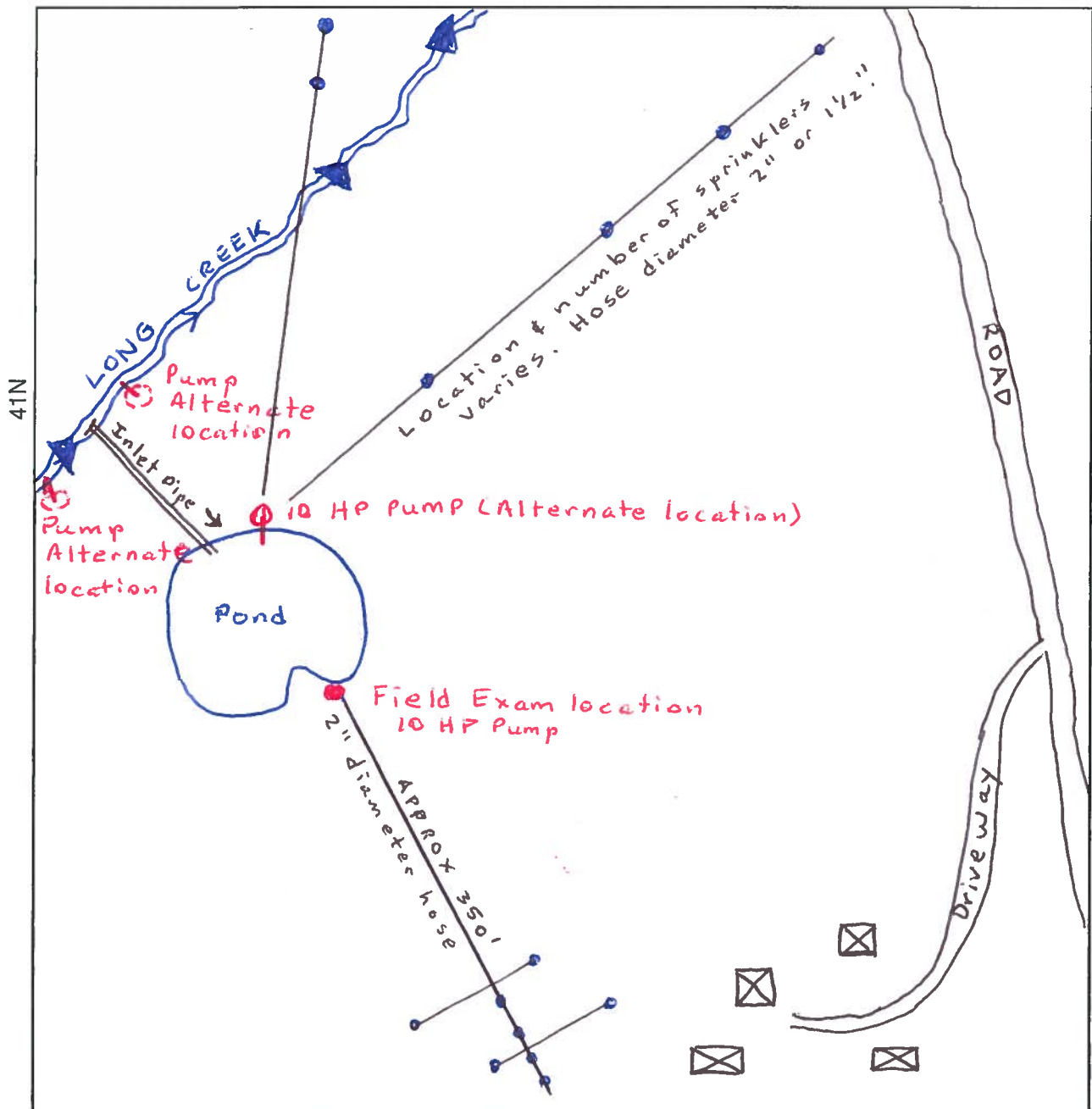
User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.425	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	10	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	4.25	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	20.05	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.5	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.5	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	25.3	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

State of Idaho
Department of Water Resources
Field Exam System Diagram
87-10071

Not To Scale.

04W

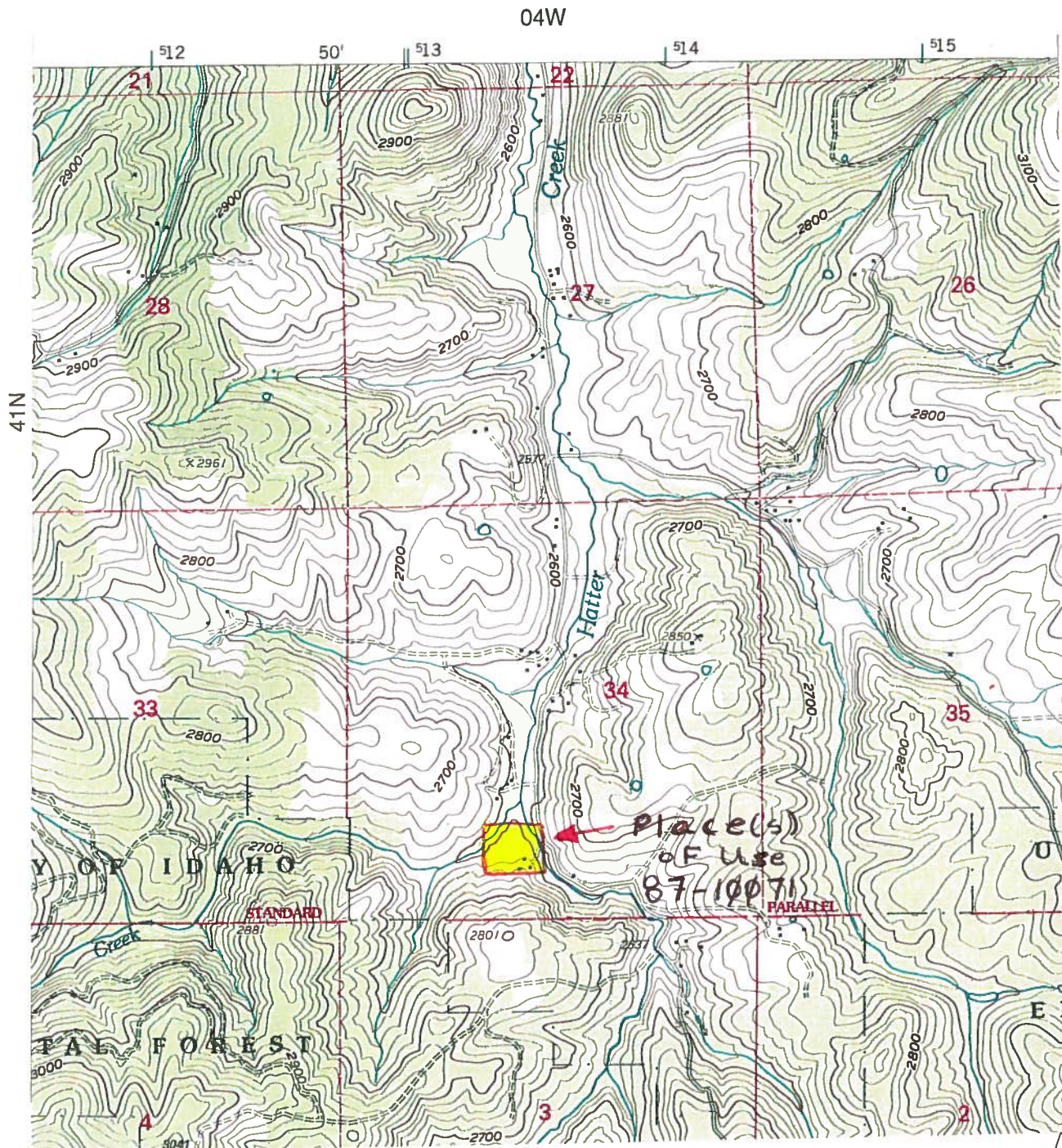


-    Pump Locations (Not all shown)
-  Flexible hose water line 2" or 1 1/2"  sprinklers
-  Building

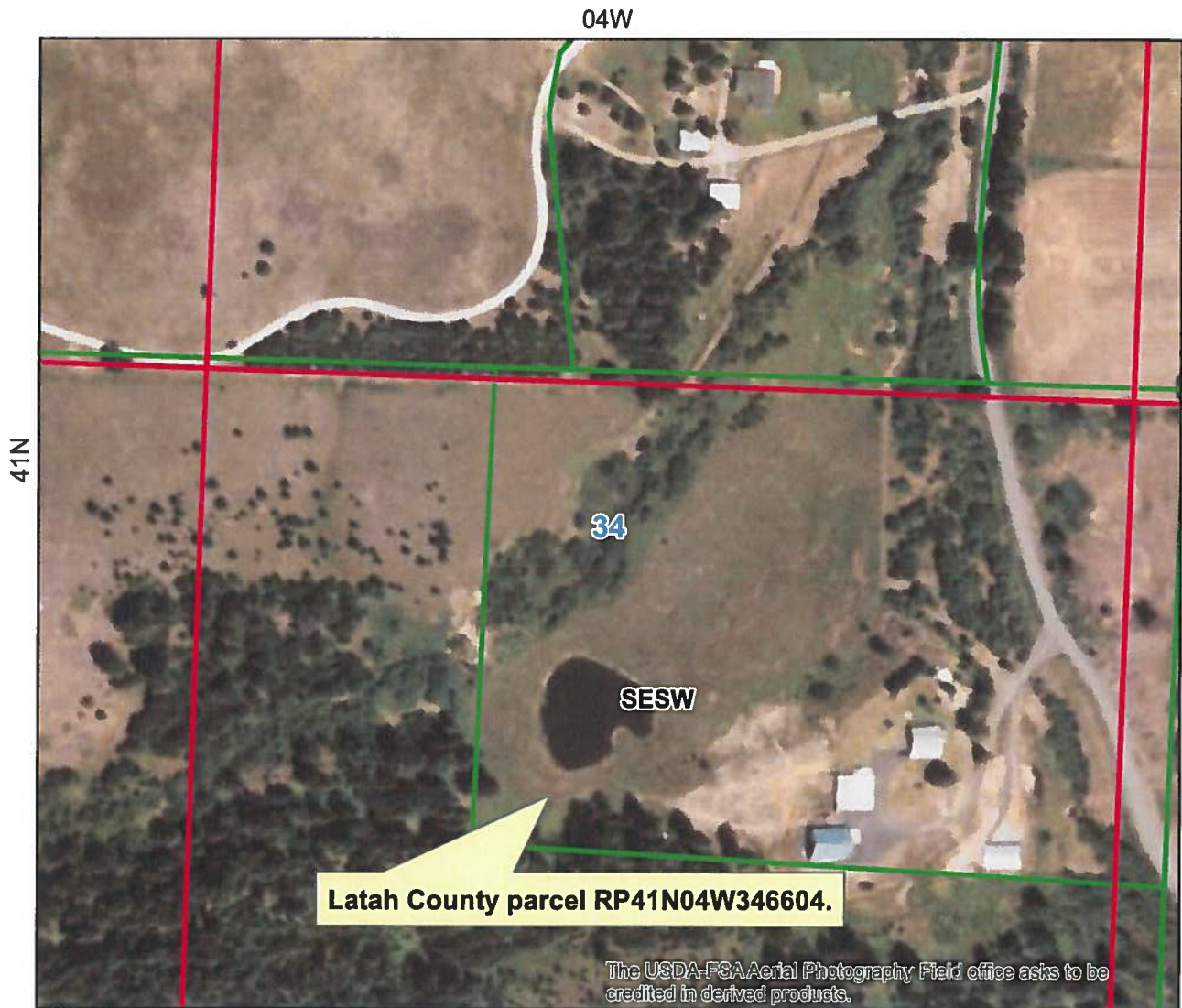


State of Idaho
Department of Water Resources
Field Exam Topographic Map
87-10071

U.S.G.S. 7.5 Minute Topographic 'Moscow Mountain' 1994



State of Idaho
Department of Water Resources
Field Exam Air Photo 2015 Image
87-10071



0 0.03 0.06 0.12 Miles

- PLS Sections
- Taxlots



Tax parcel information provided by Latah County..



87-10071 POND AND PORTION OF IRRIGATION POU.



87-10071 LONG CREEK BACKGROUND - FILL PIPE TO POND

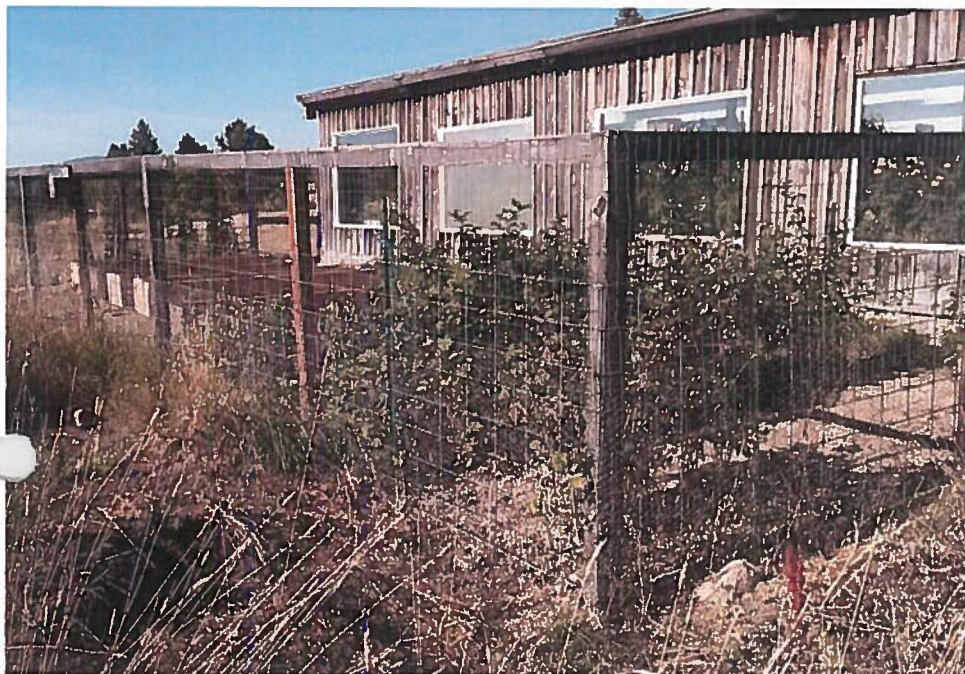


87-10071 SPRINKLERS ~~ON~~ OPERATING ON POU



87-10071 IRREGULAR POND SHAPE, WATER LINE & PUMP

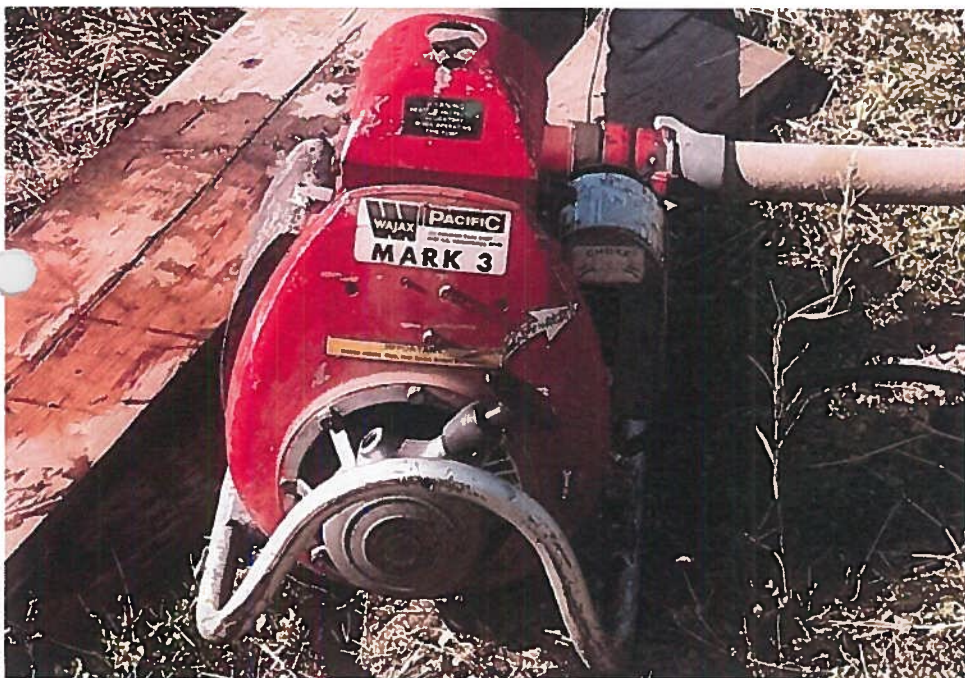
87-10071



87-10071 PORTION OF IRRIGATION PCU



87-10071 1.5" INCH & 2.0" DIAMETER EXTRA HOSE



87-10071 10 HP PUMP AT POND CLOSEUP



87-10071 GREEN HOUSE INTERIOR WATERED FROM POND.

87-10071



87-10071 IRRIGATION POND - FIELDS



87-10071 10 Horsepower Pump at Pond



87-10071 EVIDENCE OF STOCKWATER USE



87-10071 IRRIGATION PLACE OF USE - TREE TUBES

87-10071



87-19971 INLET ON LONG CREEK, VIEW ACROSS POND.

87-19971

MARK-3[®]

SERIES

MARK-3[®]

PORTABLE



PORTABLE LIGHTWEIGHT HIGH PRESSURE 4-STAGE FIRE PUMP

The **WATERAX MARK-3[®]** is the core of superior water handling systems upon which specifications and standards are built. Pairing a high performance 4-stage pump end and a 2-stroke 10 hp engine, this impressive workhorse can achieve pressures of up to 380 PSI (26.2 BAR) and flow rates reaching 98 GPM (371 L/Min). It is designed to withstand the rigors and extreme conditions of wildland firefighting and is the most trusted and time-tested pump in the industry. Appreciated for its ability to maintain high pressure over extraordinary distances and elevation, it weighs less than 60 lbs and is one-person portable – a critical attribute out in the field.

The **WATERAX** quick release clamp provided on the **MARK-3[®]** pump lets you replace a damaged pump end in the field with minimal equipment downtime.

USDA Forest Service Qualified Specification 5100-274C.

Emergency rescue equipment - Exempt from emission standards under 40 CFR 1054.660.

Applications

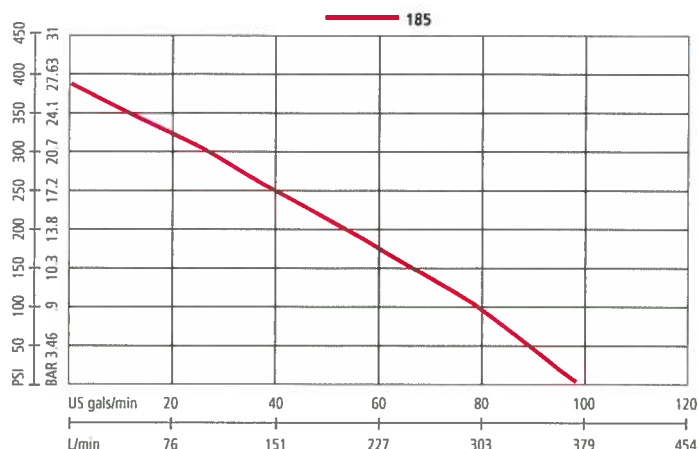
- Attack line firefighting
- Long hose lay for remote watering during firefighting operations
- High elevation firefighting in mountainous areas
- Accuracy in flow trajectory when structure fire fighting
- Tandem pumping over long distances
- Parallel pumping for higher volumes

Features and Benefits

- Quick release clamp and swappable pump ends for minimal equipment downtime and inventory
- Sealed bearing to eliminate pump end greasing in the field
- Aluminium alloy pump components and anodized parts for lighter weight and greater resistance to corrosion
- Comprehensive user and service manuals

SPECIFICATIONS

WATERAX



Flow rate at specified pressure

Maximum Pressure : 380 PSI (26.2 bar)

Free flow : 98 US gals/min (371 L/min)

Maximum Head: 878' (268 m)

Flow Rate			Pressure	
US GPM	(LPM)		PSI	(BAR)
78	(295)	@	100	(6.9)
65	(246)	@	150	(10.3)
38	(144)	@	250	(17.2)

Engine: 185

Engine Specifications

Engine WATERAX 185cc
2-cycle, air-cooled, single cylinder
with replaceable cast iron sleeve

Maximum power 10 hp (7.5 kW)

Displacement 185 cc (11.29 cu in)

Starting system Recoil starter with backup
manual rope starter

Ignition Ducati CDI

Lubrication Gasoline/oil mixture ratio 24:1

Fuel type Gasoline (unleaded, 86 minimum
octane, 10% max. ethanol) mixed
with 2-cycle oil; 24:1 ratio

Fuel consumption 1.2 US gals/hr (4.5 L/hr)

Pump Specifications

Pump end Detachable 4-stage centrifugal pump end
Lightweight aluminum alloy pump components
Anodized pump parts for corrosion resistance
Foam compatible
Stainless steel pump shaft
Blister resistant mechanical rotary seal
Maintenance-free sealed bearing
Maximum allowable pump pressure:
600 psi (41.4 bar)
Quick release lightweight pump clamp

Connections Suction: 2" (51 mm) NPSH
Discharge: 1-1/2" (38 mm) NPSH
Priming: 1-1/2" (38 mm) NPSH

Standard Inclusions

- Digital Overspeed Switch
- Exclusive blister resistant mechanical rotary seal
- Maintenance free sealed bearing
- Powder coated carry frame
- Foam compatible
- Rubber protection caps with retainer
- Recoil starter
- US Forest Service approved spark arrestor
- Standard operating tool kit

Options

- Backpack carrying frame C-7404

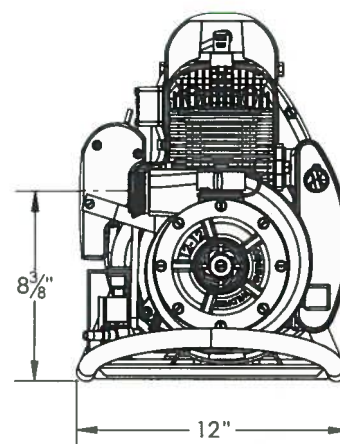
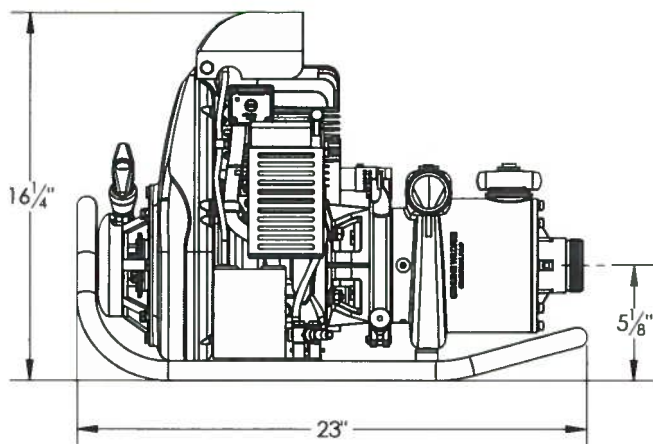
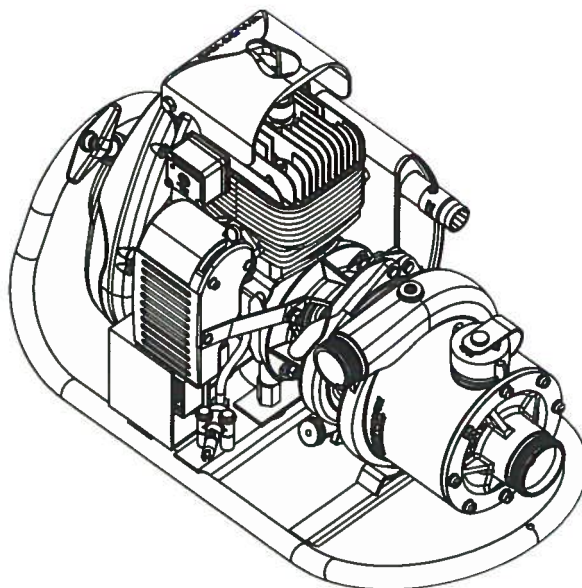
Configurations

- **MK3-T** (incl. FA-552Q)
- **MK3-TS** (incl. FA-552Q and A-2688)
- **MK3-TQS** (incl. FA-552Q, FA-4N and A-2688)
- **MK3-QS** (incl. FA-4N and A-2688)
- **MK3-QSH** (incl. FA-4N, A-2688 and DIC-HOURMETER)
- **MK-3-WPDS/PO** (incl. brass fuel connector, and 1-1/2" NH adaptor)
- **MK-3-WPDS** (incl. brass fuel connector, 1-1/2" NH adaptor
and FA-352GSA-N)

All features are not available on every model. Please refer to the product selection matrix to select the proper model.

WE MOVE WATER®

DS-20140924



Length 23" (58 cm) Width 12" (31 cm) Height 16-1/4" (41 cm) Weight 59.8 lbs (27.1 kg)



WATERAX Inc.
6635 Henri-Bourassa W.
Montreal, QC H4R 1E1

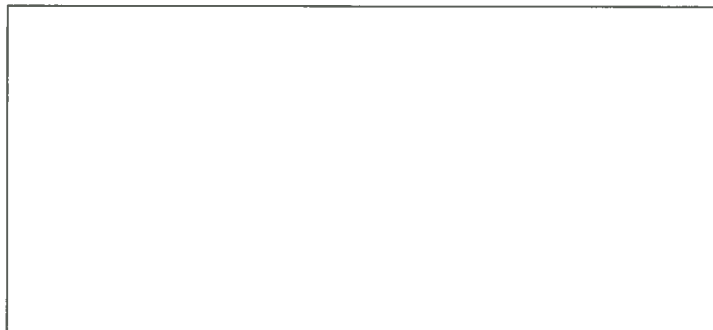
TF 855-616-1818

T 514-637-1818

F 514-637-3985

info@waterax.com
www.waterax.com

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The information in this document is subject to change without notice. Model displayed with multiple options. Weight and dimensions are approximated and may vary depending on options.

Western Truck Exchange

EMERGENCY EQUIPMENT SALES



Model "MARK 3" Wajax Pump

Description

The backpack portable MARK 3 is the highest performance centrifugal fire pump of this type available. This fact combined with its rugged design features has made the MARK 3 the standard wildland fire pump in North America and in many other countries as well. Wherever the water delivery requirements are: high volume flow at low pressures; high pressure flow at several mid-slope points; or high pressure pumping to overcome great elevation changes and operate fire nozzles effectively; the Wajax MARK 3 is the pump for the job. Lightweight and compact it can be easily carried in a vehicle compartment or mounted to a backpack frame. The MARK 3 can be utilized by itself, in tandem (series) setups, in parallel (two into one) systems, in close loop operations, and as inline booster to vehicle mounted pumps when additional pressure is required. The lightweight compactness, application, flexibility and high performance offered make the MARK 3 a truly unique piece of fire fighting equipment.

Engine Specifications		Pump Specifications	
Engine	Rotax, 2 cycle air cooled	Model	M3
Starting	Recoil type	Type	4 Stage centrifugal
Construction	Lightweight aluminum block w / cast iron sleeve	Primer	Optional hand type
Features		Construction	Aluminum w / aluminum impeller
Lightweight, easy to carry and set-up		Suction	2"
Simple & reliable to operate		Discharge	1 1/2"
Meets USDA specifications 5100-274A			

Quick connect 5 gallon fuel can w / 5' fuel line			
Dimensions		Pump Performance	
Length	22"	PSI	GPM
Width	12"	20	92
Height	16"	50	89
Weight	57 lbs.	100	77
		150	62
Price		200	43
F.O.B. Stanwood, WA.....\$ 1,500.00		250	25
Good Used Units		275	13

Contact Information:

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PHONE:

360-629-4676

FAX:

360-851-2500

E-MAIL:

westrkex@whidbey.net

ADDRESS:

P.O. BOX 86 Stanwood, WA 98292

Site Maintenance: [Ocamp](#)

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Maxey, Shaun

From: Mark Corrao [mcorrao@nmi2.com]
Sent: Wednesday, July 29, 2015 6:51 AM
To: Maxey, Shaun
Subject: Fwd: Mark and Tiffany water right pictures
Attachments: July 28 2015 Mark and Tiffany Pump.wmv

Shaun,

I was able to get my larger pump running last night and took pictures with that. This pump runs all of our sprinklers and provides water to the garden.

This pump is a Mark 3 and I have attached a video of it irrigating I took yesterday when I got it working. I will send a second e-mail with the manual and the other pictures you requested.

Please let me know if you need anything additional or if another site visit is needed.

Sincerely,
Mark and Tiffany

P.S. The video is 3.85MB, I have a longer one where I walk around the whole orchard that I can mail on a flash drive if that is helpful?...just let me know.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

June 10, 2015

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

Mark Corrao OR Tiffany Corrao
1231 Hatter Creek RD
Princeton, ID 83857

FIELD EXAM NOTICE

RE: PERMIT NO. 87-10071

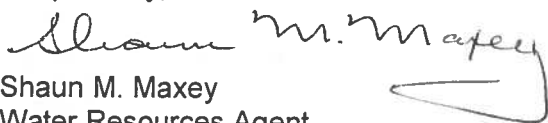
Dear Mr. or Mrs. Corrao:

Please telephone or contact me at the Idaho Department of Water Resources (IDWR) address shown above to schedule a Field Exam at your property for Water Right Permit 87-10071. A copy of the Permit is enclosed.

Idaho Department of Water Resources (IDWR) is planning to conduct water right Field Examinations in the vicinity of your Permit during the week of **July 20-24, 2015**. The Examination is required to verify your water use in order to issue a Water Right License. Please be advised that you, or a person familiar with the water system for the property, will need to operate the system under normal conditions for all of the Permit purposes during the Examination.

I can be reached at (208) 762.2816 if you have any questions.

Respectfully,



Shaun M. Maxey
Water Resources Agent
Idaho Department of Water Resources, Northern Region

Enclosure
Copy of Permit 87-10071