

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-08454

Exam Date: 8/16/2017

1. Current Owner:
STARLITE HOMEOWNERS ASSOC LAINE MEYER
PO BOX 3124 KETCHUM ID 83340 (208) 725-0867
2. Accompanied by: Laine Meyer
Relationship to Permit Holder: Starlite Homeowners Association Representative
3. SOURCE: TRIBUTARY:
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-12891 and 37-12294
2. Other water rights with the same point-of-diversion: 37-12891 and 37-12294

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW¼NW¼NW¼ Sec. 32, Twp 04N, Rge 18E, B.M. BLAINE County

Method of Determination: Field verification and aerial photography

2.

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 2.7

FIRE PROTECTION same as IRRIGATION

DOMESTIC same as IRRIGATION

Method of Determination: Field verification and aerial photography

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).

X 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
A0019213		3	N/A	N/A	N/A
A0019215		15	N/A	N/A	N/A

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

D. FLOW MEASUREMENTS

None taken

E. FLOW CALCULATIONS

Theoretical yield: $Q = \frac{8.8 \times (HP) \times (EFF)}{H}$

Where: HP = 3.0 HP and 15 HP (acquired from Laine Meyer)

EFF = Pump Efficiency = 70% (assumed)

H = Total Dynamic Head = (total lift) + (2.31 x operating pressure). Total lift was estimated at 15 ft based on adjacent well drilling reports and Laine Meyer. Operating pressure estimated at 50 and 54 psi based off the pressure gauges on system.

$$\frac{(8.8) \times (3 \text{ hp}) \times (70\%)}{15 + (50 \times 2.31)} = \frac{18.48}{130.5} = 0.14 \text{ cfs}$$

And

$$\frac{(8.8) \times (15 \text{ hp}) \times (70\%)}{15 + (54 \times 2.31)} = \frac{92.4}{139.74} = 0.66 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.7 \times 3.5 \text{ AF/ac} = 9.5 \text{ AF}$$

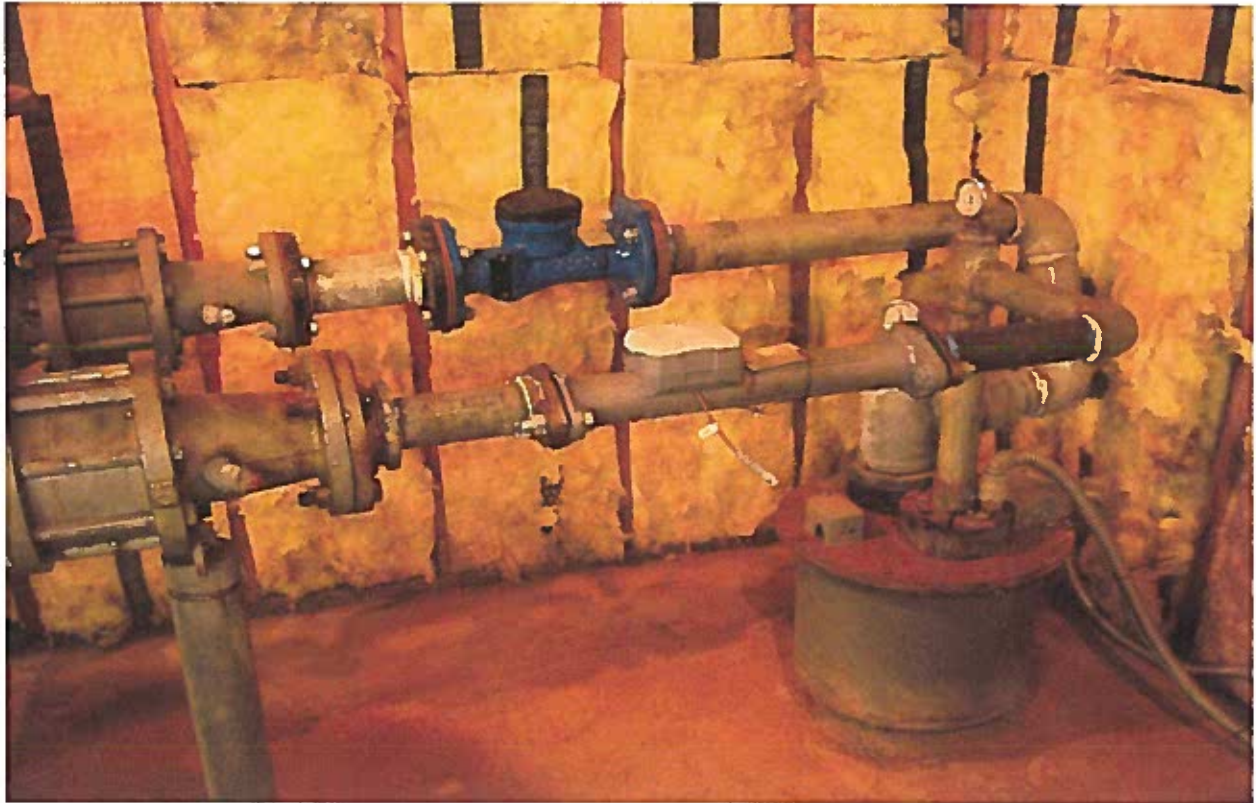
$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 215 \times 1.9835 = 34.12 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9.5 \text{ AF}$$

2. Volume Calculations for Domestic use:

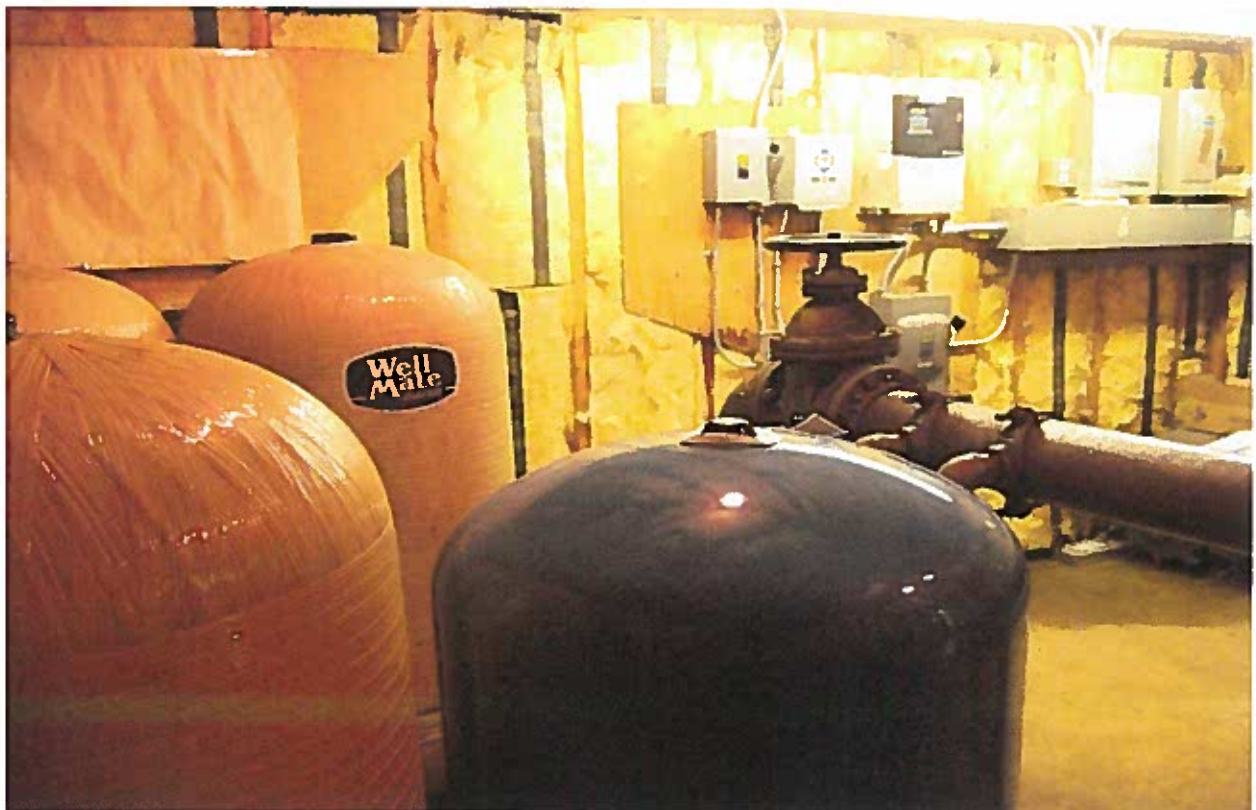
Based on department standard of 0.6 AF for domestic use per home. Totaling 4.8 AF

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Above: Well with to pumps and flow meters

Below: Pressure tanks



Field Exam 37-8454

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Above: Well house

Below: Home and Landscaping



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Homes and Landscaping



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Irrigation systems

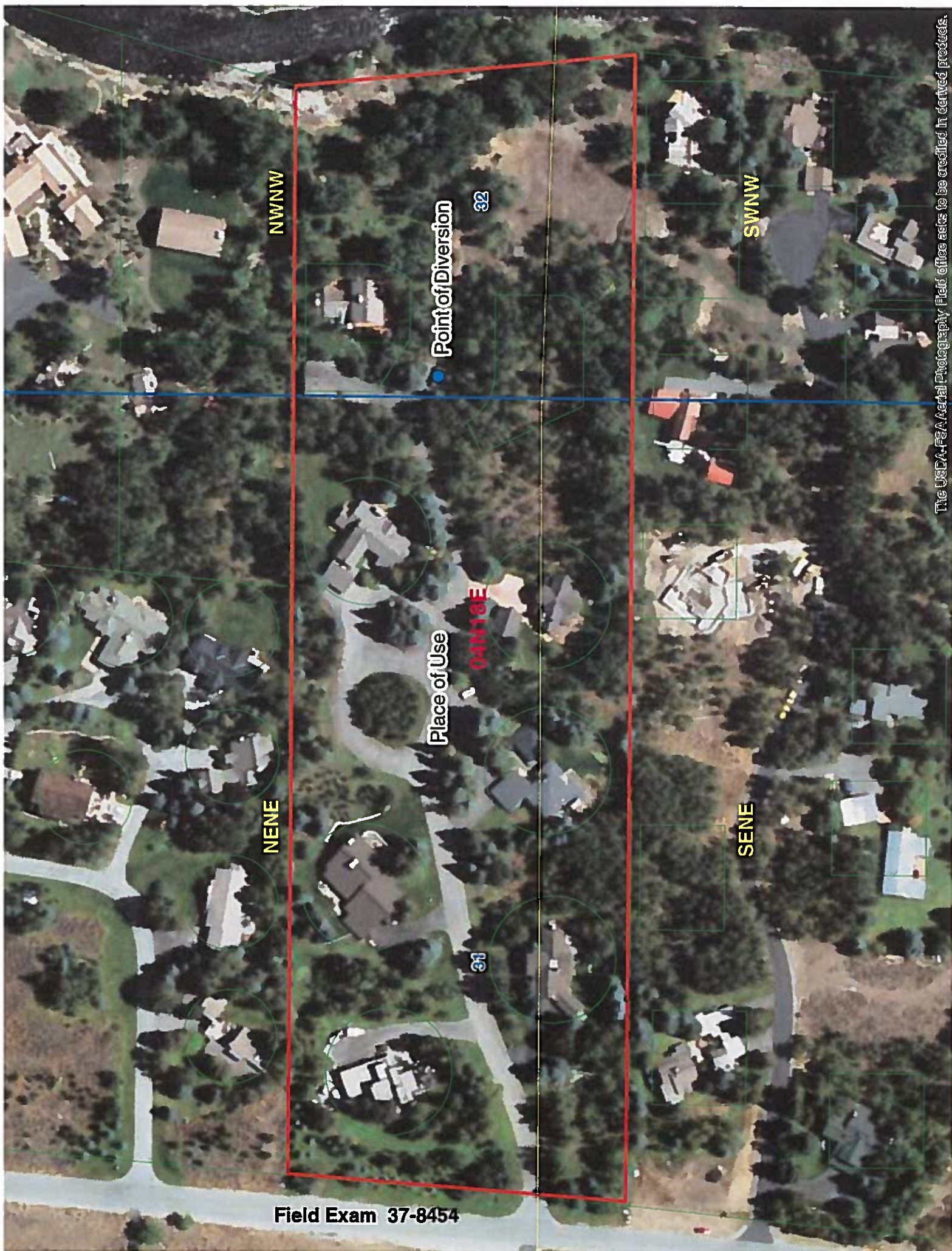


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Fire Protection System





NWNW

Point of Diversion

32

SWNW

Place of Use

04N18E

NENE

SENE

31

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October 1984

PLAT SHOWING

STARLITE SUBDIVISION

LYING WITHIN THE NE 1/4 NE 1/4, SEC. 31, & THE NW 1/4 NW 1/4, SEC. 32,

T.4N., R.18E., B.M., BLAINE COUNTY, IDAHO

While this is a photographic reproduction of the recorded plat, the Company assumes no liability for variations, if any, with a re-survey.



1980

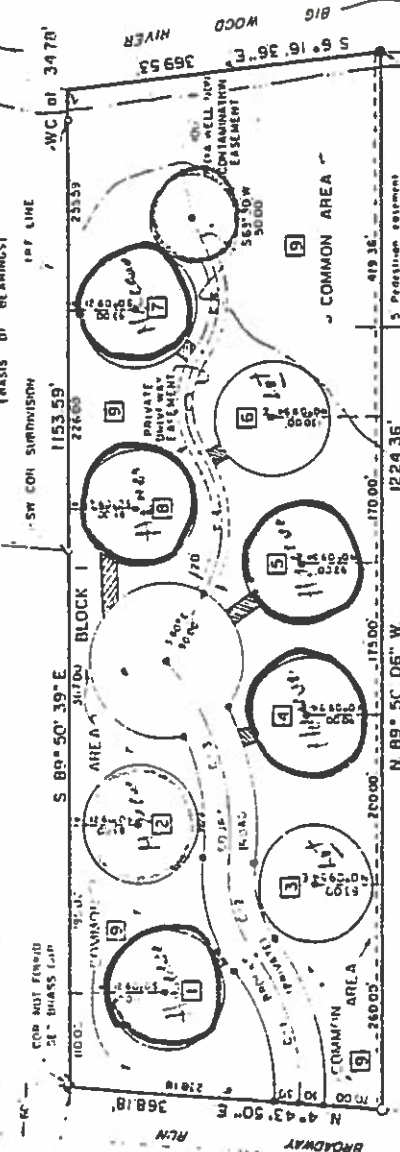
BIG WOOD RIVER RANCH
ORIGINAL CHAIN
30 29
31 32
RLM
RHASS CAP (1969)

CURVE	P	Δ	L	Ch	Bearing
C-1	250.00	27°40'00"	97.64	187.30	N 11° 31' 21" E
C-2	150.00	45° 01' 45"	62.16	107.88	N 7° 51' 34" E
C-3	300.00	47° 38' 28"	132.44	219.52	N 7° 51' 34" E
C-4	150.00	63° 50' 20"	92.44	167.13	N 8° 04' 50" E
C-5	100.00	73° 03' 53"	74.04	127.32	N 8° 16' 23" E
C-6	100.00	65° 43' 33"	64.84	110.83	S 89° 38' 14" E

SCALE: 1" = 100'

MCCLELLY RANCH SUBDIVISION
(BASIS OF BEARINGS)

SOUTHERN COMFORT SUBDIVISION



LEGEND

- Found 1/2" Rebar
- Found 5/8" Rebar
- Set 5/8" x 30" Rebar w/ Plastic Cap No. 3621
- Set Brass Cap
- Set 1/2" x 24" Rebar w/ Plastic Cap No. 3621
- 100 Year Floodplain
- Floodway by Army Corps of Engineers and Fisherman's Easement
- 20' Wide Driveway and utility easement

PRIVATE ROAD

The road as shown on this plat are hereby reserved as private roads. The purchaser and/or owner of any lots or parcels understands and agrees that private road construction, maintenance and snow removal shall be the obligation of the owner, his successors or interest, or homeowner's association and that Blaine County is in no way obligated to accept, maintain or improve these roads and that with owner shall retain, in writing, any easements in interest of these lots.

NOTE

- All lots are 135 feet in diameter
- All driveway approaches to lots are 20 feet wide
- Lot 9 is designated Common Area
- All sewerage drain fields shall be 300 feet minimum from Big Wood River
- All lots are 0.33 acres
- Common area (lot 9) contains 5.68 acres
- 20' Fisherman's easement along Big Wood River

STARLITE SUBDIVISION
SARICOTH ENGINEERS
CONSULTING ENGINEERS
KETCHUM, IDAHO