

WATER RECYCLING 101

URINE



1

00:00:00,057 --> 00:00:03,457

Is it true that astronauts drink their own urine in space?

2

00:00:03,657 --> 00:00:06,063

Yes, we make it into clean drinking water for them.

3

00:00:06,500 --> 00:00:08,770

What does unprocessed urine look like?

4

00:00:09,243 --> 00:00:10,779

It looks like this.

5

00:00:12,390 --> 00:00:15,000

What does it look like after processing?

6

00:00:15,500 --> 00:00:17,324

Like this beauty right here, like water.

7

00:00:18,000 --> 00:00:20,311

Before recycling, what did astronauts do?

8

00:00:20,511 --> 00:00:23,874

They collected their urine and threw it away.

9

00:00:24,074 --> 00:00:25,700

How do we test the system?

10

00:00:25,900 --> 00:00:27,809

We have the same hardware on the ground

11

00:00:28,009 --> 00:00:30,796

and we take donations from volunteers.

12

00:00:30,900 --> 00:00:32,690

Where do they go to, you know... go?

13

00:00:32,890 --> 00:00:35,393

Where else? The bathroom.

14

00:00:35,600 --> 00:00:38,100

Was there a special collection unit?

15

00:00:38,300 --> 00:00:42,560

Yes, we set up bottles in the women's bathrooms\hand a funnel in the men's.

16

00:00:43,760 --> 00:00:46,520

How much water does an astronaut need per day?

17

00:00:46,727 --> 00:00:48,423

Two liters, but we all do.

18

00:00:48,623 --> 00:00:50,000

How do you describe your job?

19

00:00:50,118 --> 00:00:52,316

An engineer that plays with pee.

20

00:00:52,516 --> 00:00:54,597

Or as I like to
call it, a "urine-eer."

21

00:00:55,000 --> 00:00:57,042

How will the technology benefit the journey to Mars?

22

00:00:57,242 --> 00:01:00,825

We can't send people to Mars without life
support systems.