

Land Survey Advisors 296 Timber Lakes Estates

296 Timber Lakes Estates Heber City, UT 84032 805-450-6330

> June 2, 2025 Amended June 27, 2025

Division of Reclamation, Mining and Safety

RE: Crystal Vitoria Mine, File No. P-2025-004, Notice of Intent to Conduct Prospecting Operations, Notice of Deficiency

Below we have provided responses to the areas of concern from your May 19, 2025 letter.

Section I: General Information

The area of disturbance lies within the NE1/4 of the NW1/4 of Protracted Block 37, Township 12S Range 82W.

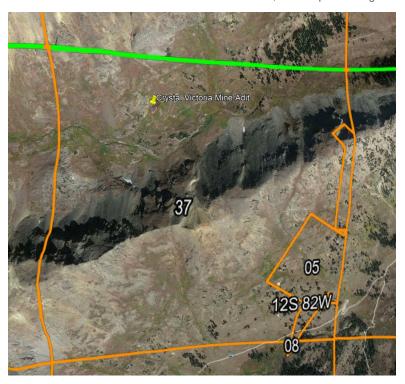


Figure 1: Location of the Crystal Victoria mine - PLSS

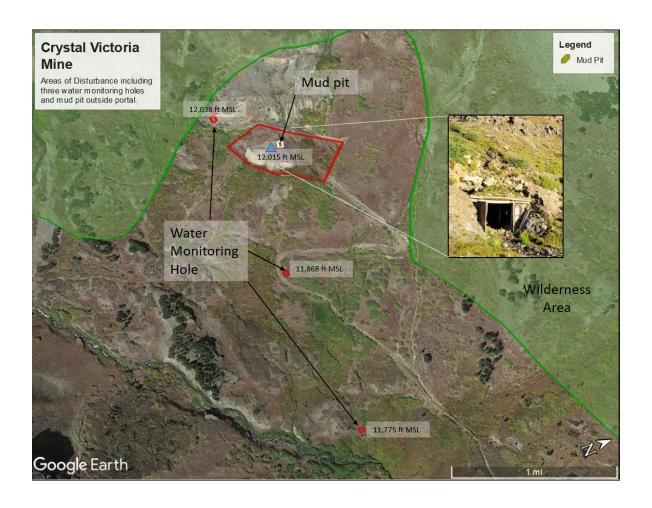
Section III: Project Description

 Question 3 states that approximately 5,000 tons of material will be extracted during the project. Please provide a narrative describing the anticipated makeup of that material as well as a plan on how the materials will be handled and or transported.

All material extracted during prospecting activities will be either drill core or channel samples taken from the underground workings. If 5,000 feet of core is successfully extracted, the total weight will be closer to <u>27 US tons</u> of material. This material will be logged by a geologist and loaded on trucks to be assayed off site. Subsequent to assay, the core will be stored off site.

- 2. In Question 6, A there is one 25x25 ft mud pit listed in the surface disturbance, however that is not discussed in any other section nor shown on any maps. Please provide more information on the location, use and the reclamation of the mud pit.
 - A 25x25' mud pit will be located 10' outside the portal at 39 degrees 2' 30.35" N 106 degrees 34' 41/15" W. The mud pit will be used to hold drilling fluid, settling cuttings and allowing for mud reuse and treatment. An impermeable pit liner will contain the fluid within the pit. All fluid and barriers will be collected in containers and sent to a recycling facility off site upon completion of the drilling program.
- 3. Additionally, in Question 6, A it is stated that there will be 12 holes with 5,000 feet depth listed. Through conversations the Division interprets this to mean 5,000 feet of total depth spread out between the 12 holes. Please confirm that the 5,000 feet is a total depth of all 12 holes and provide an estimate of the average depth of each drill hole. Additionally, please provide information regarding the underground location of each drill hole and their approximate angle of drilling.

The aggregated core will not exceed 5,000 feet across all twelve underground drill holes. The average depth of each hole will be 400 feet. The underground location of each of the twelve drill holes is yet to be determined by our geologist and will depend upon the assay results from a channel sampling program. It is anticipated the holes will all be horizontal or slightly inclined to intercept vein structures to the northwest. Both 'Jack's' and 'Vic's' structure (see map below) are oriented northeast to southwest. Each drill hole will terminate at an elevation above the furthest downslope water monitoring hole which lies 240 feet below (11,775' MSL) the underground workings (12,015' MSL).



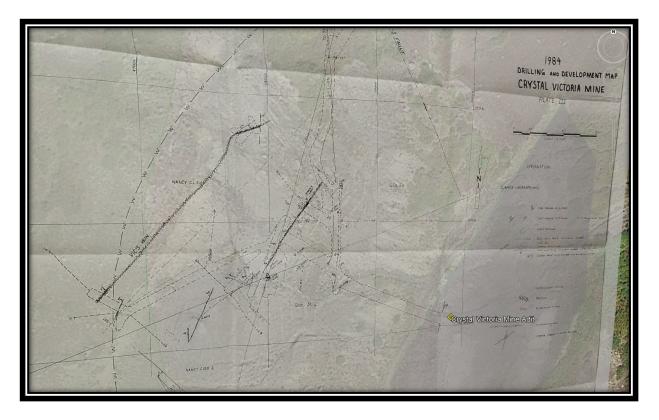


Figure 2: Mining Plan

- 4. The application materials propose that drill water will be absorbed into the water table for the underground drilling operations however cuttings management is not discussed. Please provide a narrative detailing the materials handling operations for the underground drilling portion of the project.
 - All material extracted during prospecting activities will be either drill core or channel samples taken from the underground workings. If 5,000 feet of core is successfully extracted, the total weight will be closer to 27 US tons of material. This material will be logged by a geologist and loaded on trucks to be assayed off site. Subsequent to assay, the core will be stored off site.
- 5. Question 6, D states that "rock dumps will also be limited to this same 1 acre area of disturbance." Please clarify if rock dumping on the surface is proposed as a part of the prospecting operation.
 - Because an adequate space exists to support underground drilling operations, material aside from drill cuttings will not be dumped on the surface as part of the prospecting operation.
- 6, E briefly discusses the Groundwater Monitoring holes that are proposed to be installed. Please provide a narrative supported by a drawing showing the elevational location of the wells compared to the underground workings and extent of the underground drilling operations ensuring that the depth of the monitoring wells is below the target exploration zone and potential mining area. Also, please provide a Water Quality Sampling and Analysis Plan with QA/QC measures and analyte sampling list (for Surface and Groundwater samples) for review to be carried out after the holes are completed. The sampling and analysis plan should also include well construction information and sampling protocols to be used in the monitoring program.

The average depth of each drill hole will be 400 feet. The underground location of each of the twelve drill holes is yet to be determined by our geologist and will depend upon the assay results from a channel sampling program. It is anticipated the holes will all be horizontal or slightly inclined to intercept vein structures to the northwest. Both 'Jack's' and 'Vic's' structure (see map below) are oriented northeast to southwest. Each drill hole will terminate at an elevation above the furthest downslope water monitoring hole 'C' which lies 240 feet below (11,775' MSL) the underground workings (12,015' MSL). Monitoring hole 'B' lies 148 feet below the adit.

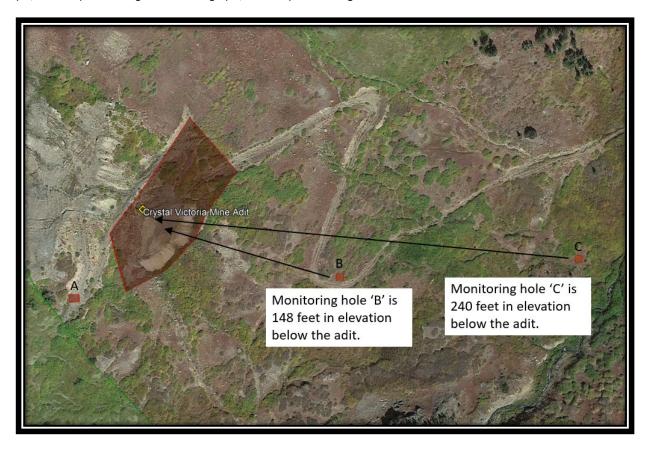


Figure 3: Water monitoring hole elevation in relation to the adit

Section IV: Operation and Reclamation Measures

8. Questions 3 and 7, respectively discuss topsoil redistribution and revegetation, however based on the information contained within the application materials no disturbance requiring revegetation is proposed. Please clarify if topsoil replacement and revegetation will be required, and if so, please provide a detailed description of any equipment needed for topsoil replacement, seeding method, mulching (if needed), etc.

No topsoil exists on proposed disturbance area. Topsoil replacement and revegetation will not be required.

9. Question 4 states that "if deemed necessary, the drill holes will be plugged and abandoned during reclamation if they are making water." Please provide a specific Plugging and abandonment method should the underground drill holes encounter water. Please note that pursuant to Rule 5.4.2(1), any drill hole which evidences artesian flow of groundwater to the surface shall be plugged with neat cement grout, or a similar material sufficient to prevent such artesian flow, as

approved by the office. Also, if water is encountered, please commit to ceasing the activity and contacting the Division immediately as a potential Modification to the NOI may be required.

None of the thousands of feet of historic drilling encountered water. Because all proposed future drilling will be in the same areas and at similar orientations it is not expected we will encounter water. If a new drill hole encounters water the hole will be injected and sealed with neat cement grout to prevent the flow of water and materials through the hole in accordance with Rule 5.4.2(1). The Division will be immediately contacted in the event an artesian flow occurs.

- 10. Additionally, though the groundwater monitoring holes will remain open, a plugging and abandonment method must be submitted to be included in the Reclamation Cost Estimate. Please provide more information regarding the plugging and abandoning of the Groundwater Monitoring holes, and their estimated completion depth.
 - Upon completion of the water monitoring program all locks, caps and PVC pipes will be removed and the monitoring holes filled with local rock and soil. The estimated completion depth of each water monitoring hole will be 25 feet.
- 11. Based on the condition of the locking gate on the adit, the Division will include the replacement of the portal gate in the Reclamation Cost Estimate and required Financial Warranty. To supplement your response to Question 5, please provide the dimensions of the gate so that it may be included in the estimate.
 - The dimensions of the portal gate are approximately 8 feet in height and 12 feet in width. Per Forest Service recommendation, a combination lock will replace the current portal gate and vehicle gate locks.
- 12. A seed mix was provided in the application materials, however for operations on lands administered by the US Forest Service, a Forest Service approved seed mix must be used. Please contact the Forest Service Office ensure the seed mix provided is acceptable, if it is not, please submit a revised seed mix with seeding rate in PLS/Acre.

Because the proposed disturbance area does not contain topsoil, replacement, seeding and remediation will not take place.

June 26, 2025

Re: Crystal Vitoria Mine, File No. P-2025-004, Notice of Intent to Conduct Prospecting Operations, Notice of Deficiency-2

Section III: Project Description

1. Please provide a Water Quality Sampling and Analysis Plan with QA/QC measures and analyte sampling list (for Surface and Groundwater samples) for review to be carried out after the holes are completed. The sampling and analysis plan should also include well construction information and sampling protocols and a list of analytes to be used in the monitoring program.

A Water Quality Sampling & Analysis Plan (WQSAP) follows. This document is intended to satisfy Deficiency-2 and amend the NOI submittal.

Section IV: Operation and Reclamation Measures

2. In your responses, specifically to item 10, it is stated that "upon completion of the water monitoring program all locks, caps and PVC pipes will be removed and the monitoring holes will be filled with local rock and soil.". Please note that pursuant to Rule 5.4.2, any hole that encounters water must be sealed with neat cement grout or bentonite gel. Please commit to one of the accepted plugging and abandonment methods for holes that encounter water for the water monitoring holes.

See A Water Quality Sampling & Analysis Plan (WQSAP) below. This document is intended to satisfy Deficiency-2 and amend the NOI submittal.

Respectfully,

Michael Murphy

Michael Murphy

Owner/Operator, Land Survey Advisors LLC

LandSurveyAdvisors@gmail.com, 805-450-6330

Water Quality Sampling & Analysis Plan (WQSAP)

Project: Crystal Victoria Mine

Location: McNasser Gulch, Chaffee County, CO

1. Purpose & Scope

Baseline sampling will be sufficient to allow the Division to assess the impacts of the future mining operation in McNasser Gulch on the prevailing hydrologic balance. Sampling locations will be established upgradient and downgradient of the proposed operation (minimum of three points to determine flow direction). Groundwater wells will be inside the permit area and screened through each identified aquifer. Quarterly sampling over five consecutive quarters will ensure capture of seasonal variability.

2. Regulatory Framework

- 2 CCR 407-2 DRMS water quality standards
- 2 CCR 402-2 Division of Water Resources monitoring-well construction requirements
- EPA-approved analytical methods (40 CFR 136)

3. Sampling Locations & Design

- Groundwater sampling upgradient (12,038 ft MSL) and two monitoring holes downgradient of the prospecting operation (11,868 ft and 11,775 ft MSL)
- Monitoring holes located within separate 15 x 15 ft disturbance areas as approved by the Division
- Minimum 5 consecutive quarters, within sampling frequency to capture site-specific temporal variability and seasonal trends

4. Minimum Baseline Groundwater Requirements

- Locations: upgradient and downgradient of the disturbance area
- Frequency: quarterly
- Duration: five consecutive quarters

5. Monitoring Well Construction Standards (2 CCR 402-2 Figures)

Wells will be constructed per the standards in Rule 14, incorporating grout, casing, and sealing as shown in approved figures:

- Figure 6a: Flush-mount PVC casing and screen with bentonite seal, concrete apron, locking cap
- Figure 6b–6d: Above-ground configurations with steel casing, venting, concrete pad, security features
- Document 'GeoprobeR Groundwater Sampling and Monitoring Direct Push', examples of hardware under consideration to meet the 2 CCR 402-2 requirements

These conform to the Division's minimum construction standards for monitoring/observation wells.

6. Field Procedures & QA/QC

All procedures remain per Section 5 above, with the following adjustments:

- Purge wells and record field parameters (pH, DO, EC, turbidity, etc.)
- Implement QA/QC (field blanks, trip blanks, duplicates, calibration, holding times)

7. Laboratory Analyses

- Metals (Total & Dissolved): As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Al
- Major ions and nutrients
- TSS, TDS, hardness, alkalinity
- Optional: VOCs, acid-base accounting

8. Data Management & Reporting

- Maintain unique sample IDs, full COC records
- Data compiled in QA-reviewed formats, flagged for QC exceptions
- Compare results to Colorado Class 2 standards
- Quarterly reports submitted to DRMS, including: maps, well construction details, sampling data across five quarters, QA summaries, and interpretations

9. Plugging and Abandonment Methods

- Any hole that encounters water will be sealed with neat cement grout pursuant to Rule 5.4.2.

Summary

- Sampling: quarterly for at least five consecutive quarters
- Locations: upgradient/downgradient in each aquifer, minimum 3 points
- Wells: constructed per 2 CCR 402-2 Rule 14 figures (6a-6d)
- QA/QC: rigorous field and lab protocols
- Reporting: quarterly to DRMS, with robust documentation

Groundwater Sampling & Monitoring (Direct Push)

geoprobe.com/groundwater

Geoprobe Systems® offers groundwater sampling tools, monitoring wells, and accessories to help characterize the water quality and extent of potential contamination — including PFAS — during environmental assessments and investigations in unconsolidated soils and sediments.

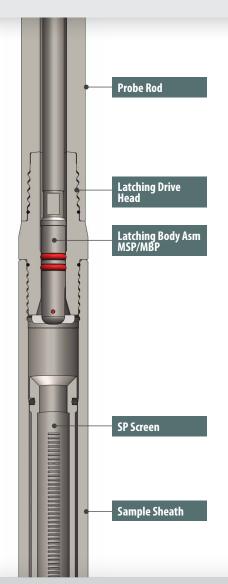
Groundwater samplers are installed temporarily allowing for quick sample collection along with slug testing capabilities, then the sampler is removed, decontaminated, and used at the next location. SP16, SP19, and SP22 are examples of these types of groundwater sampling tools.

Groundwater monitoring can be accomplished using Geoprobe® Prepacks for both long and short-term groundwater monitoring wells. They are available in a variety of sizes and are installed using casings driven by Geoprobe® machines.

Most groundwater samplers permit you to conduct bottom-up grouting to meet regulatory requirements for borehole abandonment. These simple, cost-effective tools have changed the way many environmental assessments and remedial investigations are conducted. Simpler can be better... smarter... and less expensive.



Engineered and Built by Geoprobe®



NEW GW Screen Point Latching Samplers:

Isolate Sampler to Assure Integrity

The latching sampler system allows the operator to deploy a screen point (SP) sampler in the formation and then insert a sampler and tubing down the rods and connect or "latch" to the SP drive head. The latching sampler system uses o-ring seals to isolate the sample zone (the SP screen) from water in the drive rods above the SP drive head. Mechanical Syringe Pumps (MSP), Mechanical Bladder Pumps (MBP), and conventional peristaltic pumps can all be used as screen point latching samplers.

Latching SP16

The latching sampler allows the user to connect a pump, or other sample line, directly to the top of the downhole SP sampler. This isolates the SP sampler from water in the rod string above the sampler, thereby assuring sample integrity.

Latching SP19

The NEW SP19 with a modified drive head has 59% more area included in the sheath head making it stronger and more durable. Utilizing the latching sampler, connect a pump or other sample line directly to the top of the SP19, isolating the SP19 from water in the rod string above to assure sample integrity.

Isolated SP22

Saving time when doing a lot of testing, the isolated SP22 securely holds the mechanical syringe pump or mechanical bladder pump, sealing the outer string.

SP19 Groundwater Sampler

Screen Point Groundwater Sampler for 1.75 in. Rods

Geoprobe® Screen Point (SP) Groundwater Samplers have become standard equipment for direct push operators completing environmental investigations since its introduction in the 1990s. The benefit of the SP system is its ability to deliver a protected sampling screen to depth and then to expose that screen to the formation.

The SP19 Groundwater Sampler is designed for use with the Geoprobe® 1.75 rod system commonly used by Direct Image® operators who perform MIP, HPT, and OIP logging. The heavier rods have a much longer life than the 1.5-inch rods, plus they have dependable 0-ring seal at the rod joints. The 1.75 rod makes a good choice for the continuous driving of groundwater profiling, logging, or sampling.

The SP19 sheath, as with all SP Groundwater Samplers, is built with a larger diameter, 1.875 inches (48mm), than the rod system. This larger diameter serves as a friction reducer during driving and also seals the hole as the sheath is retracted to expose the SP screen. Updated SP22 screens are compatible with the SP19, with lengths available in 12 inch, 48 inch, and 60 inch (13 inch, 42 inch, and 60 inch exposed lengths respectively).

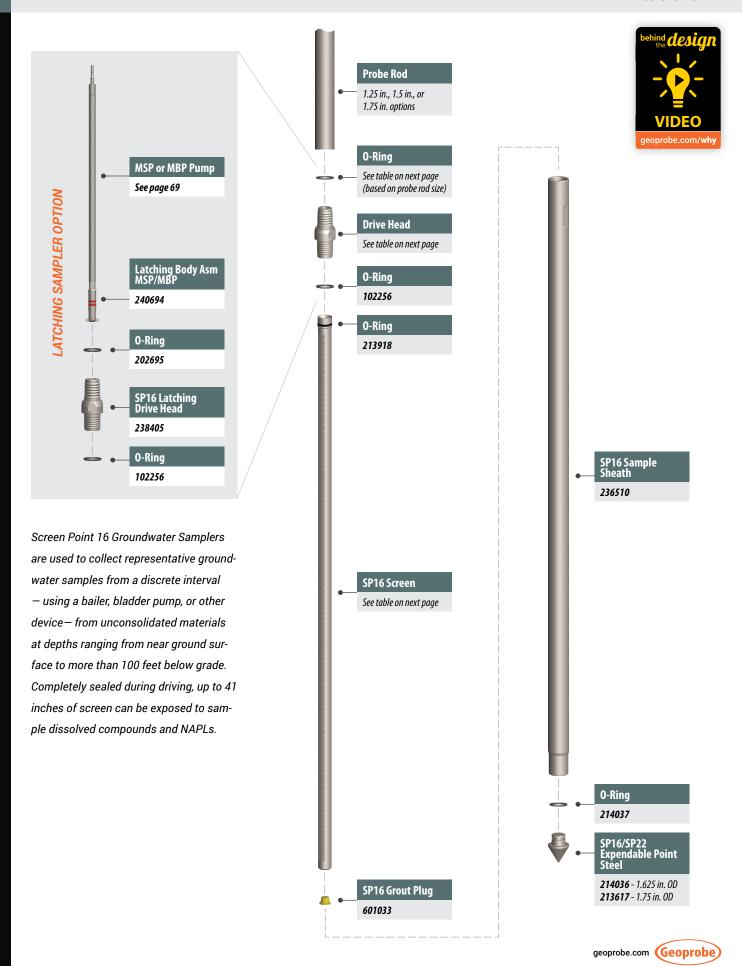
Groundwater Sampling & Monitoring

SP16 Groundwater Sampler

geoprobe.com/sp16







Drive Heads

Components	Part	MN	Notes
1	SP Drive Head	211776	1.25 Pin, 1.63 in. OD
	SP16 Drive Head	202633	1.5 Pin, .625 in. Bore
	SP16 Drive Head	203262	1.5 Pin, .5 in. Bore
	SP16 Drive Head	223178	1.75 Pin, .5 in. Bore

Screens / Plugs

Components	Part	MN	Notes
	SP16 Screen	214027	Stainless Steel
	SP16 Screen	214028	PVC, Recoverable
1	SP16 Screen	202821	0.65 in. ID, 0.010 Slot, PVC, Disposable
25	SP16 Grout Plug	601033	Quantity: 25

Sheath / Points

Components	Part	MN	Notes
	SP16 Sample Sheath	236510	
25	SP16/SP22 Expendable Point Steel	214036	1.625 in. OD, Quantity: 25
	SP16/SP22 Expendable Point Steel	213617	1.75 in. OD, Quantity: 25

O-Rings

Part	MN	Notes
O-Ring (1.25 in. Probe Rod)	213771	Quantity: 25
O-Ring (1.5 in. Probe Rod)	202695	Quantity: 25
O-Ring (1.75 in. Probe Rod)	220387	Quantity: 25
O-Ring (SP16 Drive Head)	102256	Quantity: 25
O-Ring (MC5 Point, DT22 Point, SP16 SS Screen)	213918	Quantity: 25
O-Ring (SP15/SP16 Expendable Point)	214037	Quantity: 25
	O-Ring (1.25 in. Probe Rod) O-Ring (1.5 in. Probe Rod) O-Ring (1.75 in. Probe Rod) O-Ring (SP16 Drive Head) O-Ring (MC5 Point, DT22 Point, SP16 SS Screen) O-Ring (SP15/SP16	0-Ring (1.25 in. Probe Rod) 213771 0-Ring (1.5 in. Probe Rod) 202695 0-Ring (1.75 in. Probe Rod) 220387 0-Ring (SP16 Drive Head) 102256 0-Ring (MC5 Point, DT22 Point, SP16 SS Screen) 213918 0-Ring (SP15/SP16 214037

Notes

To use the latching sampler with the SP16 Groundwater Sampler, be sure to select the SP16 Latching Drive Head (MN 238405) when you purchase this system.

When operating the mechanical syringe or bladder pump within this sampler, Geoprobe® recommends using the mechanical actuator (MN 214106) for sample collection.

Latching groundwater sampling system patent pending

Geoprobe 785-825-1842

Tubing / Check Valve

Components	Part	MN	Notes
	Nylon Grout Tubing	600144	3/8 in. 0D x 1/4 in. ID x 100 ft.
100 ft. 500 ft.	PE Tubing	601063	3/8 in. OD x 1/4 in. ID x 500 ft.
300 It.	Tubing Check Valve	214061	3/8 in. OD Tubing

Accessories

Components	Part	MN	Notes
	SP16 Grout Nozzle	214031	
	SP16 Screen Push Adapter	214029	
	SP16 Grout Plug Push Adapter	214030	
	Mini Bailer	214056	0.4" OD X 20"
	3/8 Tubing Check Valve End	214058	
51	Replacement Check Balls (3/8 Check Valve)	214057	Quantity: 5
	O-Ring Service Kit (SP16 1.5 Rod)	202797	

Latching Sampler Option

Components	Part	MN	Notes
	Latching Body Asm MSP/MBP	240694	
· 0	O-Ring (SP Latch Body)	239184	Quantity: 10
	SP Latch	240695	Quantity: 10
/	Shear Pin Latching SP MSP/MBP	239716	Quantity: 20
9.0	SP16 Latching Drive Head	238405	1.5 Pin
10)	MBP/MSP Check Ball Stainless Steel	103212	Quantity: 10

SP16 - Step-by-Step Sampling

geoprobe.com/sp16



This step-by-step video tutorial demonstrates taking SP16 groundwater samples.

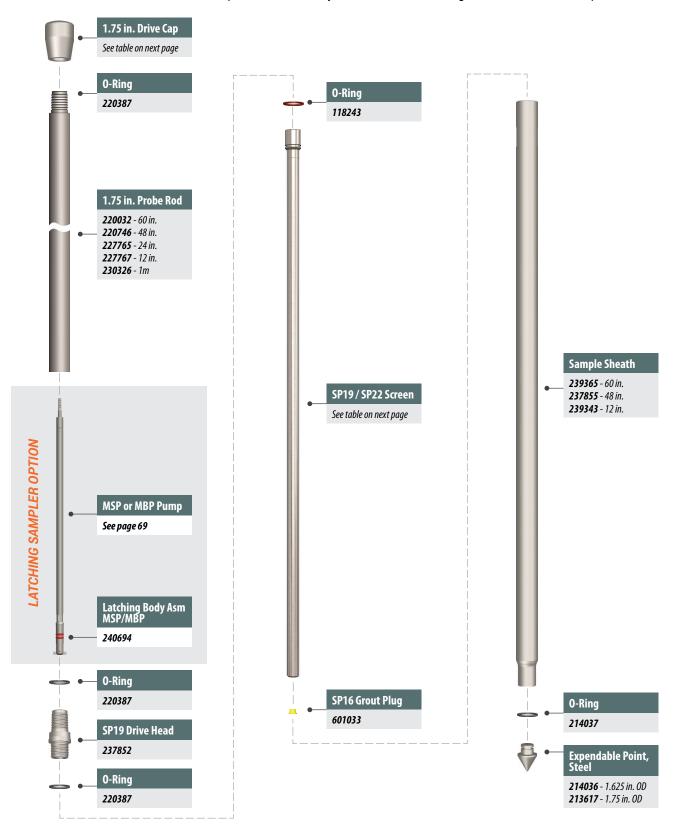
SP19 Groundwater Sampler

geoprobe.com/sp19





The SP19 Groundwater Sampler is designed for use with the Geoprobe® 1.75 rod system. This rod system allows the operator to drive samplers deeper, with greater driving efficiency and less rod wear. Updated SP22 screens are compatible with the SP19, with lengths available in 12 inch, 48 inch, and 60 inch. SP16 drive points and accessory extension rods for holding down the screen are compatible with SP19.



Drive Cap / Probe Rods

Components	Part			MN		Notes			
	1.75 in. Drive Cap			1.75 in. Drive Cap		22565	7	GH60, Th	readless
	1.75 in. Drive Cap		225663		GH40, Threadless				
1.75 in. Probe Rod	MN	Length	Weight		0	D	ID		
	220032	60 in.	34 I	bs.					
	220746	48 in.	27.2	lbs.		1.75 in			
	227765	24 in.	13.6	3.6 lbs. 1			.75 in.		
	227767	12 in.	6.8	6.8 lbs.					
	230326	1 m.	22.3	B lbs.					

Drive Head

Components	Part	MN	Notes
Dimby 100	SP19 Drive Head	237852	1.75 Pin

Screens / Plugs

Components	Part	MN	Notes
	SP19 / SP22 Screen	239395	0.004 Slot x 60 in., Stainless Steel
	SP19 / SP22 Screen	208114	0.004 Slot x 48 in., Stainless Steel
	SP19 / SP22 Screen	208238	0.004 Slot x 12 in., Stainless Steel
. 4 .	SP16 Grout Plug	601033	Quantity: 25

Sheath / Points

Components	Part	MN	Notes
	SP19 Sample Sheath	239365	60 in.
	SP19 Sample Sheath	237855	48 in.
	SP19 Sample Sheath	239343	12 in.
25 0	SP16/SP22 Expendable Point Steel	213617	1.75 in. OD, Quantity: 25
	SP16/SP22 Expendable Point Steel	214036	1.625 in. OD, Quantity: 25

Notes

The SP19 Drive Head (MN 237852) is a "Latching" drive head and is compatible with the latching samplers found on page 70.

When operating the mechanical syringe or bladder pump within this sampler, Geoprobe® recommends using the mechanical actuator (MN 214106) for sample collection.

Latching groundwater sampling system patent pending



Components	Part	MN	Notes
0_	O-Ring (1.75 in. Probe Rod)	220387	Quantity: 25
25	O-Ring (SP19 SS)	118243	Quantity: 25
00	O-Ring (SP15/SP16 Expendable Point)	214037	Quantity: 25

Tubing / Check Valve

Components	Part	MN	Notes
	Nylon Tubing	600144	3/8 in. 0D x 1/4 in. ID x 100 ft.
100 ft. 500 ft.	PE Tubing	601063	3/8 in. OD x 1/4 in. ID x 500 ft.
	Tubing Check Valve	214061	3/8 in. OD Tubing
	Tubing Check Valve	208113	3/8 in. OD Tubing, 20 in.

Accessories

Components	Part	MN	Notes
	SP16 Grout Nozzle	214031	
	SP16 Screen Push Adapter	214029	
	SP16 Grout Plug Push Adapter	214030	
	Mini Bailer	214056	0.4" OD X 20"
	3/8 Tubing Check Valve End	214058	
5	Replacement Check Balls (3/8 Check Valve)	214057	Quantity: 5

Latching Sampler Option

Components	Part	MN	Notes
	Latching Body Asm MSP/MBP	240694	
•	O-Ring (SP Latch Body)	239184	Quantity: 10
	SP Latch	240695	Quantity: 10
/	Shear Pin Latching SP MSP/MBP	239716	Quantity: 20
10	MBP/MSP Check Ball Stainless Steel	103212	Quantity: 10





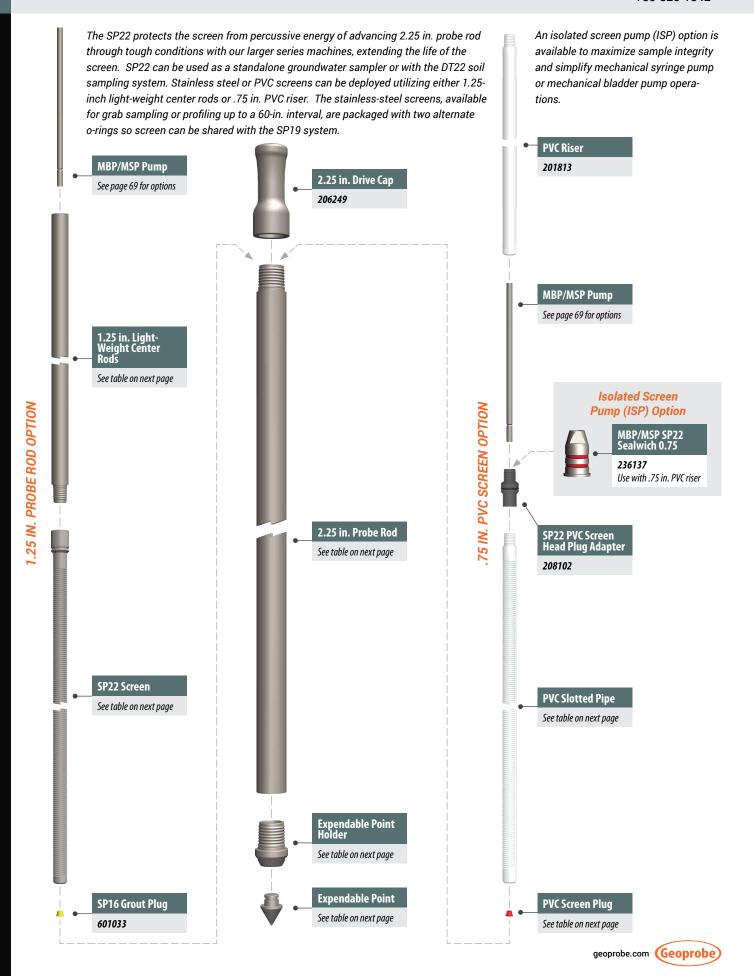
Groundwater Sampling & Monitoring

SP22 Groundwater Sampler

geoprobe.com/sp22



785-825-1842



Drive Cap / 2.25 in. Probe Rods

Components	Part			MN		Notes	
	2.25 in. Drive Cap		206249	9	GH60, Th	readless	
25	O-Ring (2.25 in. Probe Rod)		213790)	Quantity	: 25	
2.25 in. Probe Rod	MN	Length	We	ight	0	D	ID
	204767	60 in.	37.5	lbs.			
	204766	48 in.	30 I	30 lbs.			
	206706	36 in.	22.5 lbs.		,	.25 in.	1.5 in.
	206588	24 in.	15 I	15 lbs.		2.23 III.	1.3 111.
	204777	12 in.	7.5	7.5 lbs.			
	204778 1 m 24.6 l		ilbs.				

Points / Holders

Components	Part	MN	Notes
	SP22 Expendable Point Holder (2.25 Point)	206861	
25	2.25 in. Expendable Steel Point	213789	2.45 in. OD, Quantity: 25
	O-Ring (2.25 in. Expendable Point)	200282	Quantity: 25
	SP22 Expendable Point Holder (SP22 Point)	209991	
25	SP16/SP22 Expendable Point Steel	214036	1.625 in. OD, Quantity: 25
00	O-Ring (SP15/SP16 Expendable Point)	214037	Quantity: 25

Tubing / Check Valve

Components	Part	MN	Notes
	PE Tubing	601063	3/8 in. 0D x 1/4 in. ID x 500 ft.
500 ft.	Tubing Check Valve	208113	3/8 in. OD Tubing, 20 in.
	Tubing Check Valve	214061	3/8 in. OD Tubing

Notes

The 20-inch long check valve (208113) is required when using the light-weight center rods.

When operating the mechanical syringe or bladder pump within this sampler, Geoprobe® recommends using the mechanical actuator (MN 214106) for sample collection.

SP22-ISP Groundwater Sampler

geoprobe.com/sp22-isp

This step by step video looks at SP22 Isolated Screen Pump (ISP).



1.25 in. Light-Weight Center Rods

1.25 in. Light- Weight Center Rods	MN	Length	We	ight	0[D	ID
	205232	60 in.	6 lb	S.			
	203988	48 in.	5.1	lbs.	1.25 in.		0.625 in.
	209949	36 in.	4.2	lbs.		1.23 III.	
	206525	1 m	4.5	lbs.			
Components	Part		MN		Notes		
25	O-Ring (1.25 in. Probe Rod)		213771	1	Quantity	: 25	

Stainless Steel Screens, 1.25 Box

Components	Part	MN	Notes
	SP19 / SP22 Screen	239395	0.004 Slot x 60 in., Stainless Steel
	SP19 / SP22 Screen	208114	0.004 Slot x 48 in., Stainless Steel
	SP19 / SP22 Screen	208238	0.004 Slot x 12 in., Stainless Steel
٥.	0-Ring Kit (SP22)	208095	Quantity: 10
	SP16 Grout Plug	601033	Quantity: 25

PVC Screens / Riser / Accessories

1 VO Obrecho / Hiber / Modeboories					
Components	Part	MN	Notes		
	PVC Riser	201813	0.75 in. x 60 in.		
\$\oldots\$ \oldots\$ \o	O-Ring (0.75 PVC Riser)	214070	Quantity: 25		
	SP22 PVC Screen Head Plug Adapter	208102	.75 in.		
	O-Ring Kit (SP22)	208095	Quantity: 10		
	PVC Slotted Pipe	203101	0.75 x 60 in. (0.01-in. slot width)		
48 in.	PVC Slotted Pipe	208318	.75 in. x 48 in., PVC, Quantity: 2		
	PVC Slotted Pipe	600218	.75 in. x 15 in. (0.01-in. slot width)		
//12 in.	PVC Slotted Pipe	208319	.75 in. x 12 in., PVC, Quantity: 2		
	PVC Bottom Plug	202059	0.75 in.		
8 6 8	SP22 PVC Screen Plug Kit	208296	Quantity: 10		
0	SP22 PVC Screen Holder	208316	1.25 Box, .75 PVC		
	SP22 0.75 PVC to 1.25 Pin ASM	221598			

Isolated Screen Pump (ISP) Option

Components	Part	MN	Notes
	MBP/MSP SP22 Sealwich 0.75	236137	
MAN	SP22 Finger Rack Kit	240742	
0	O-Ring (SP22 Sealwich)	236687	Quantity: 10
10	MBP/MSP Check Ball Stainless Steel	103212	Quantity: 10

Mechanical Bladder & Syringe Pump

When operating the mechanical syringe or bladder pump, Geoprobe® recommends using the mechanical

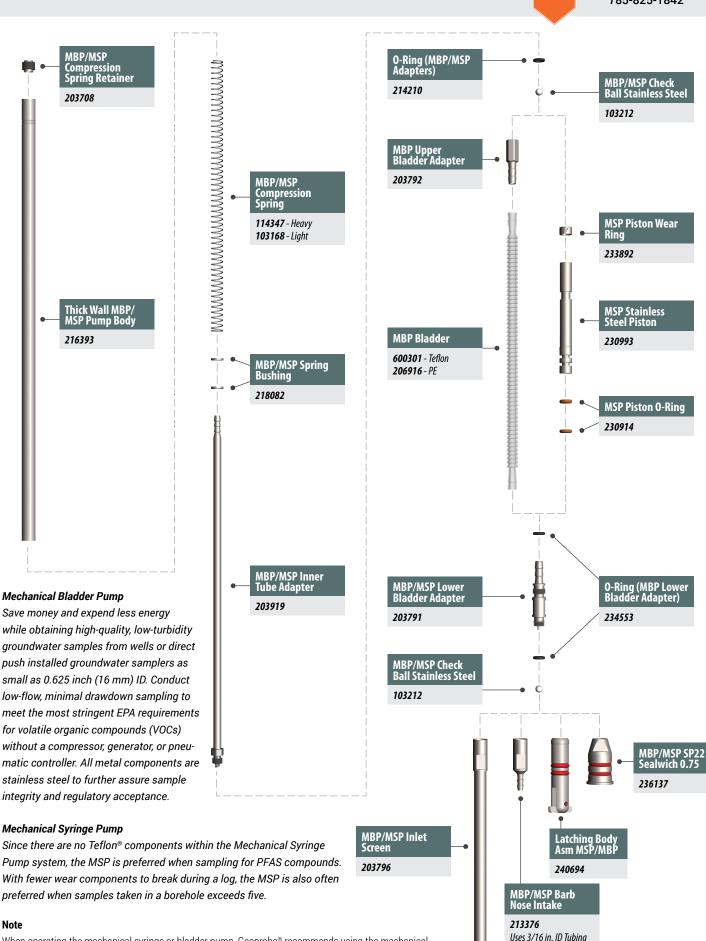
actuator (MN 214106) for sample collection.

geoprobe.com/mbps



Geoprobe 785-825-1842

geoprobe.com (Geoprobe)



MECHANICAL BLADDER PUMP

Components	Part	MN	Notes
	Mechanical Bladder Pump	214098	
	MBP Upper Bladder Adapter	203792	
	MBP Corrugated Teflon Bladder	600301	Quantity: 1
10	MBP Corrugated PE Bladder	206916	Quantity: 10
	Concentric MBP HDPE Tubing	214104	7/16" OD, PP 100 ft.
100 ft.	Concentric MBP HDPE Tubing	214102	7/16" OD, FEP 100 ft.
100 ft.	Concentric MBP HDPE Tubing	214103	7/16" OD, PE 100 ft.
50 ft.	Concentric MBP HDPE Tubing	214100	7/16" OD, PE 50 ft.
	Concentric MBP HDPE Tubing	214101	7/16" OD, PP 50 ft.
50 ft. 50 ft.	Concentric MBP HDPE Tubing	214099	7/16" OD, FEP 50 ft.
	MBP PVC Adapter	204163	2.0 in. x 1 in. NPT
	MBP PVC Adapter	203776	1.5 in. x 1 in. NPT
	Coupling 1 in. NPT PVC	600282	
	MBP PVC Adapter	203775	1.25 in. x 1 in. NPT
On the last	MBP PVC Riser Adapter Kit	214109	
	MBP Well Mount Kit	214110	
	MBP Service Kit	214112	
and an article	MBP Compression Spring Stainless Steel	103168	
	O-Ring (MBP PVC Adapter 2.0 in.)	103231	Quantity: 25

MECHANICAL SYRINGE PUMP

Components	5	Part	MN	Notes
		Mechanical Syringe Pump	234560	
	0000	MSP Piston Wear Ring	233892	Quantity: 10
		MSP Stainless Steel Piston	230993	
0		MSP Piston O-Ring	230914	Quantity: 10
		MSP Service Kit	236511	
1006		O-Ring Installation Tool (MSP Piston)	236023	
100 ft.		HDPE Tubing	117811	5/16 in. 0D x 3/16 in. ID x 100 ft.

COMBINED COMPONENTS

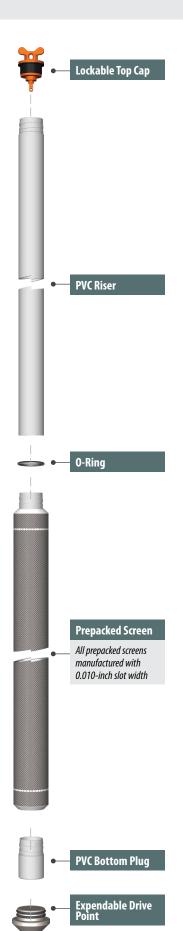
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Componer	nts	Part	MN	Notes
		MBP/MSP Compression Spring Retainer	203708	
		Thick Wall MBP/MSP Pump Body	216393	
		MBP/MSP Heavy Compression Spring	114347	
	00	MBP/MSP Spring Bushing	218082	
/		MBP/MSP Inner Tube Adapter	203919	
	O	O-Ring (MBP/MSP Adapters)	214210	Quantity: 25
° 10		MBP/MSP Check Ball Stainless Steel	103212	Quantity: 10
* %	0	O-Ring (MBP/MSP Lower Bladder Adapter)	234553	Quantity: 25
		MBP/MSP Lower Bladder Adapter	203791	
		MBP/MSP Inlet Screen	203796	
3000		MBP/MSP Barb Nose Intake	213376	Uses 3/16 in. ID Tubing
		Latching Body Asm MSP/MBP	240694	
	-6-	MBP/MSP SP22 Sealwich 0.75	236137	
		MBP/MSP Electric Actuator	214106	12VDC
li To	40	Kit MBP/MSP 12VDC EL. ACT. Accessories	204950	
100		MBP/MSP Hand Grip Outer Tubing Grip	204162	
90		MBP/MSP Hand Grip Outer Tubing Adapter	203777	
		MBP/MSP Hand Grip Actuator	203778	
The state of the s		MBP/MSP Cleaning Brush Kit	214111	
-		Single Cigarette Lighter Plug to 32R	204703	
	~	32P to MBP/MSP Actuator	204701	Length: 15 ft.
•		Battery Clips to 32R	204702	
		MBP/MSP Assembly Tool	203762	
	7.7	MBP/MSP Actuator Slotted Adapters Kit	218271	
	-	MBP/MSP Top Seal	234817	
	920	HDPE Tubing	114348	1/4 in. OD x .040 in. Wall x 500 ft.
500 ft.		Polypropylene Tubing	601060	1/4 in. OD x 3/16 in. ID x 500 ft.
300 It.	100 ft.	FEP Tubing	214252	1/4 in. OD x 3/16 in. ID x 100 ft.

Prepacked Screen Monitoring Wells

geoprobe.com/prepacks



ndwater monitoring wells.



Designed for setting small diameter groundwater monitoring wells, prepacked screens consist of a standard, slotted PVC well screen pipe surrounded by a stainless steel mesh. Sand is prepacked around the slotted PVC before the well screen is installed, guaranteeing sand will be located directly around the well screen for quicker more efficient groundwater monitoring well installation.

Key Features

- · No cuttings generated during installation
- Well seal and grouting meet EPA and ASTM D-5092 method requirements
- · Minimal disturbance of natural formation conditions
- Minimal development and purge water generated for sampling, reducing time requirements and disposal costs
- Uses standard above-ground or flush-mount well protectors

Prepack Accessories

Components	Part	MN	Notes
	Well Cover	601074	4 in. OD x 12 in. LG, Aluminum
V	Well Cover	601077	7 in. OD x 10 in. LG, Iron
	Tubing Check Valve	214063	5/8 in. OD Tubing
	Tubing Check Valve	214064	1/4 in. OD Tubing
6	Tubing Check Valve	214062	1/2 in. OD Tubing
	Tubing Check Valve	214061	3/8 in. OD Tubing
500 ft.	Polypropylene Tubing	601060	1/4 in. OD x 3/16 in. ID x 500 ft.
500 ft.	Teflon Tubing	601061	1/4 in. OD x 3/16 in. ID x 500 ft.
30011.	LDPE Tubing	601062	1/4 in. OD x 3/16 in. ID x 500 ft.
500 ft.	PE Tubing	601063	3/8 in. 0D x 1/4 in. ID x 500 ft.
500 ft.	PE Tubing	601067	1/2 in. 0D x 3/8 in. ID x 500 ft.
100 ft.	PE Tubing	601068	5/8 in. 0D x 1/2 in. ID x 100 ft.
10011.	Sand Silica 20-40 Mesh	213876	75 lb. Bucket



0.75 in. Prepacks

Components	Part	MN	Notes
	Prepack	203095	0.75 in. ID x 1.4 in. OD x 60 in.
	PVC Slotted Pipe	203101	0.75 x 60 in. (0.01-in. slot width)
	PVC Riser	201813	0.75 in. x 60 in.
	PVC Bottom Plug	202059	0.75 in.
	Top Cap Black Vinyl	600148	.75 in. Riser
	Well Plug	601079	0.75 in. Riser, Non-locking, SCH 40
	Well Plug	601078	0.75 in. Riser, Locking, SCH 40
& & & & & & & & & & & & & & & & & & &	O-Ring (0.75 PVC Riser)	214070	Quantity: 25
	2.25 in. Expendable Steel Point	213788	2.45 in. OD

1.0 in. Prepacks

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Components	Part	MN	Notes		
	Prepack	203096	1 in. ID x 2.5 in. OD x 60 in.		
	PVC Slotted Pipe	202135	1 in. x 60 in. (0.01-in. slot width)		
	PVC Riser	202136	1 in. x 60 in.		
	PVC Bottom Plug	202137	1 in.		
A CONTRACTOR	Well Plug	601071	1 in. Riser, Locking, SCH 40		
	Top Plug Red LDPE	114968	1 in. Riser		
0825	O-Ring (1.0 PVC Riser)	102256	Quantity: 25		
	3.25 in. Expendable Steel Point	213798	3.57 in. 0D		

1.5 in. Prepacks

Components	Part	MN	Notes
K.	Prepack	203079	1.5 in. ID x 2.5 in OD x 60 in.
0	PVC Slotted Pipe	203080	1.5 in. x 60 in. (0.01- in. slot width)
	PVC Riser	203081	1.5 in. x 60 in.
	PVC Bottom Plug	203082	1.5 in.
	Well Plug	601072	1.5 in. Riser, Locking, SCH 40
	Top Plug Red LDPE	115080	1.5 in. Riser
25	0-Ring (1.5 PVC Riser)	102881	Quantity: 25
	3.25 in. Expendable Steel Point	213798	3.57 in. 0D

2.0 in. Prepacks

2.0 III. I Tepacito			
Components	Part	MN	Notes
	Prepack	206644	2 in. ID x 3.4 in. OD x 60 in.
	Slim Prepack	220282	2 in. ID x 2.8 in. OD x 60 in. (for 3.75 rods)
	PVC Riser	104378	2 in. x 60 in.
	PVC Slotted Pipe	104852	2 in. x 60 in. (0.01-in. slot width - no groove)
	PVC Bottom Plug	104397	2 in.
- AK	Well Plug	601073	2 in. Riser, Locking, SCH 40
600	Well Development Tool	116290	2 in., PVC
	LDPE Plug	115052	2 in. Riser
	4.5 in. Expendable Point Steel	207735	5 in. OD
	3.75 in. Expendable Point	219601	Use with Slim Prepacks

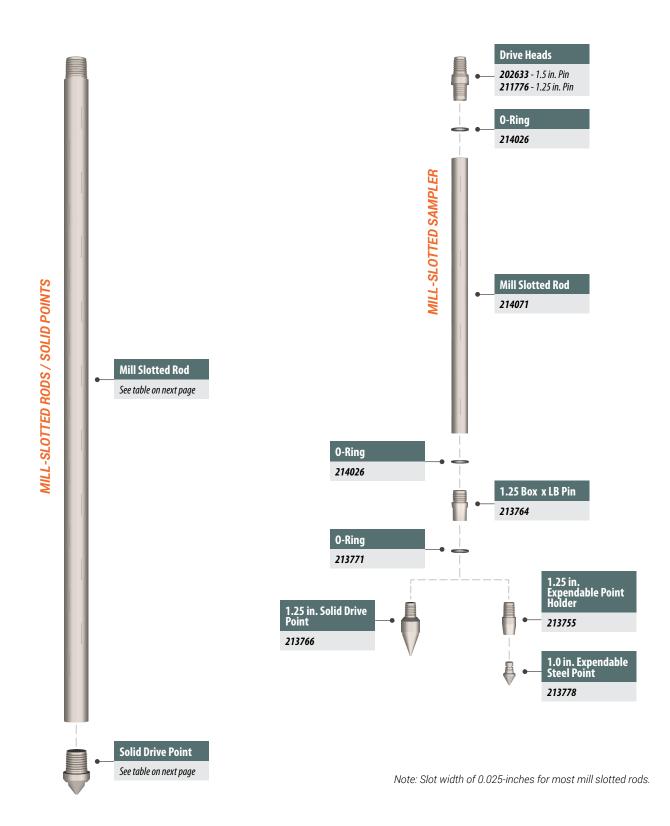


Mill-Slotted Rods (1.25 in. and larger)

geoprobe.com/mill-slotted



Mill-Slotted Rods are available in multiple sizes and lengths to collect water samples through sands and also sample multiple depths in one push. The durable groundwater sampler is designed for water profiling in sand and gravel.



MILL-SLOTTED RODS / SOLID POINTS

Mill-Slotted Rods

Components		Part	MN	Notes
48 in.	(0i-	Mill Slotted Rod	202832	3.25 in. OD x 48 in.
1M	60in.	Mill Slotted Rod	213355	2.25 in. OD x 60 in.
E TIME	60 in.	Mill Slotted Rod	206865	2.25 in. OD x 1 m
	tilli.	Mill Slotted Rod	205029	1.5 in. OD x 60 in.

Solid Drive Points

Components	Part	MN	Notes
	3.25 in. Solid Drive Point	201273	3.5 in. OD
	2.25 in. Solid Drive Point	204764	2.5 in. 0D
	1.5 in. Solid Drive Point	203909	1.5 in. OD

TUBING					
Components	Part	MN	Notes		
	PE Tubing	601063	3/8 in. 0D x 1/4 in. ID x 500 ft.		
500 ft.	Tubing Check Valve	214061	3/8 in. OD Tubing		

MILL-SLOTTED SAMPLER

Drive Heads

Components	Part	MN	Notes
	SP16 Drive Head	202633	1.5 Pin, .625 in. Bore
	SP Drive Head	211776	1.25 Pin, 1.63 in. OD

Mill-Slotted Rods / Adapters

Components	Part	MN	Notes
24 in.	Mill Slotted Rod	214071	1.5 in. OD x 24 in. LB Box
	1.25 Box x LB Pin	213764	1.68 in. S-S

Points / Holders

Components	Part	MN	Notes
A -	1.25 in. Solid Drive Point	213766	1.75 in. OD
	1.25 in. Expendable Point Holder	213755	1.25 in. OD 0.625 in. ID
	1.0 in. Expendable Steel Point	213778	1.1 in. OD

O-Rings

Components	Part	MN	Notes
6 25	O-Ring (Drive Head)	214026	Quantity: 25
25	O-Ring (1.25 in. Probe Rod)	213771	Quantity: 25
25	O-Ring (2.25 in. Probe Rod)	213790	Quantity: 25

S-S (Shoulder to Shoulder)