

Possible causes:	What to check for:	How to correct:
<p>Improper well design or construction – links to user-friendly wells, key elements of a properly constructed well.</p> <ul style="list-style-type: none"> - links to well screen criteria 	<p>Sediment appears in water shortly after well completion. <u>Remove pump and use down-hole video camera to inspect well casing and screen.</u></p>	<p>Have a <u>licensed</u> drilling contractor repair the construction problem</p>
<p>Insufficient well development after construction.</p>	<p>Sediment appears shortly after well completion. Well production may improve with pumping.</p>	<p>A <u>licensed</u> drilling contractor should redevelop the well.</p>
<p>Continuous over pumping of well.</p> <ul style="list-style-type: none"> - review of pumping records and drawdown levels 	<p>Sediment appears in water shortly after well completion.</p>	<p>Compare current discharge rate of well with the driller's recommended rate. If the current flow rate is higher, install a flow restrictor on pump. <u>If required, install cistern to meet peak water requirements.</u></p>
<p><u>Corrosion of well casing due to perforation of liner or screen.</u></p> <ul style="list-style-type: none"> - well camera 	<p>Sudden appearance of sediment in water when there was no previous problem. Often coupled with a change in water quality. <u>Calculate the Ryznar Stability Index</u></p>	<p>Consult a <u>licensed</u> drilling contractor. Depending on the well construction, repair or replace well. <u>Alternate construction materials should be considered or cathodic protection depending on the value of the well.</u></p>
<p>Failure of the annulus or casing seal.</p>	<p>Sudden appearance of sediment, coupled with a change in water quality.</p>	<p>Consult a <u>licensed</u> drilling contractor. It may be possible to re-establish the seal. Test water quality regularly and investigate when quality changes occur.</p>