```xml
<?xml version="1.0" encoding="US-ASCII"?>
<!--XBRL Document Created with Wdesk from Workiva-->
<!-- -->
<xsd:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="http://www.
highwaterethanol.com/20190131" xmlns:highwater="http://www.highwaterethanol.com/20190131" xmlns:link="http://www.
xbrl.org/2003/linkbase" xmlns:nonnum="http://www.xbrl.org/dtr/type/non-numeric" xmlns:num="http://www.xbrl.org/
dtr/type/numeric" xmlns:us-types="http://fasb.org/us-types/2018-01-31" xmlns:xbrli="http://www.xbrl.org/2003/
instance" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:import namespace="http://fasb.org/srt/2018-01-31" schemaLocation="http://xbrl.fasb.org/srt/2018/elts/srt-
2018-01-31.xsd" />
  <xsd:import namespace="http://fasb.org/us-gaap/2018-01-31" schemaLocation="http://xbrl.fasb.org/us-gaap/2018/
elts/us-gaap-2018-01-31.xsd" />
  <xsd:import namespace="http://fasb.org/us-roles/2018-01-31" schemaLocation="http://xbrl.fasb.org/us-gaap/2018/
elts/us-roles-2018-01-31.xsd" />
  <xsd:import namespace="http://fasb.org/us-types/2018-01-31" schemaLocation="http://xbrl.fasb.org/us-gaap/2018/
elts/us-types-2018-01-31.xsd" />
  <xsd:import namespace="http://www.xbrl.org/2003/instance" schemaLocation="http://www.xbrl.org/2003/xbrl-
instance-2003-12-31.xsd" />
  <xsd:import namespace="http://www.xbrl.org/2003/linkbase" schemaLocation="http://www.xbrl.org/2003/xbrl-
linkbase-2003-12-31.xsd" />
  <xsd:import namespace="http://www.xbrl.org/2009/arcrole/fact-explanatoryFact" schemaLocation="http://www.xbrl.
org/lrr/arcrole/factExplanatory-2009-12-16.xsd" />
  <xsd:import namespace="http://www.xbrl.org/2009/role/negated" schemaLocation="http://www.xbrl.org/lrr/role/
negated-2009-12-16.xsd" />
  <xsd:import namespace="http://www.xbrl.org/2009/role/net" schemaLocation="http://www.xbrl.org/lrr/role/net-2009-
12-16.xsd" />
  <xsd:import namespace="http://www.xbrl.org/dtr/type/non-numeric" schemaLocation="http://www.xbrl.org/dtr/type/
nonNumeric-2009-12-16.xsd" />
  <xsd:import namespace="http://www.xbrl.org/dtr/type/numeric" schemaLocation="http://www.xbrl.org/dtr/type/
numeric-2009-12-16.xsd" />
  <xsd:import namespace="http://xbrl.org/2005/xbrldt" schemaLocation="http://www.xbrl.org/2005/xbrldt-2005.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/country/2017-01-31" schemaLocation="http://xbrl.sec.gov/country/2017/
country-2017-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/currency/2017-01-31" schemaLocation="http://xbrl.sec.gov/currency/
2017/currency-2017-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/dei/2018-01-31" schemaLocation="https://xbrl.sec.gov/dei/2018/dei-
2018-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/exch/2018-01-31" schemaLocation="https://xbrl.sec.gov/exch/2018/exch-
2018-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/invest/2013-01-31" schemaLocation="http://xbrl.sec.gov/invest/2013/
invest-2013-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/naics/2017-01-31" schemaLocation="http://xbrl.sec.gov/naics/2017/
naics-2017-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/sic/2011-01-31" schemaLocation="http://xbrl.sec.gov/sic/2011/sic-
2011-01-31.xsd" />
  <xsd:import namespace="http://xbrl.sec.gov/stpr/2018-01-31" schemaLocation="https://xbrl.sec.gov/stpr/2018/stpr-
2018-01-31.xsd" />
  <xsd:annotation>
    <xsd:appinfo>
      <link:linkbaseRef xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" xlink:href="highwater-
20190131_cal.xml" xlink:role="http://www.xbrl.org/2003/role/calculationLinkbaseRef" xlink:type="simple" />
      <link:linkbaseRef xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" xlink:href="highwater-
20190131_def.xml" xlink:role="http://www.xbrl.org/2003/role/definitionLinkbaseRef" xlink:type="simple" />
      <link:linkbaseRef xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" xlink:href="highwater-
20190131_lab.xml" xlink:role="http://www.xbrl.org/2003/role/labelLinkbaseRef" xlink:type="simple" />
      <link:linkbaseRef xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" xlink:href="highwater-
20190131_pre.xml" xlink:role="http://www.xbrl.org/2003/role/presentationLinkbaseRef" xlink:type="simple" />
      <link:roleType id="CommitmentsAndContingencies" roleURI="http://www.highwaterethanol.com/role/
CommitmentsAndContingencies">
        <link:definition>2122100 - Disclosure - Commitments and Contingencies</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
```

```
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CommitmentsAndContingenciesForwardContractsDetails" roleURI="http://www.highwaterethanol.
com/role/CommitmentsAndContingenciesForwardContractsDetails">
      <link:definition>2422403 - Disclosure - Commitments and Contingencies -Forward Contracts (Details)</link:
definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CommitmentsAndContingenciesGrainProcurementContractDetails" roleURI="http://www.
highwaterethanol.com/role/CommitmentsAndContingenciesGrainProcurementContractDetails">
      <link:definition>2422402 - Disclosure - Commitments and Contingencies -Grain Procurement Contract (
Details)</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CommitmentsAndContingenciesMarketingAgreementsDetails" roleURI="http://www.
highwaterethanol.com/role/CommitmentsAndContingenciesMarketingAgreementsDetails">
      <link:definition>2422401 - Disclosure - Commitments and Contingencies -Marketing Agreements (Details)</
link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CondensedBalanceSheets" roleURI="http://www.highwaterethanol.com/role/
CondensedBalanceSheets">
      <link:definition>1001000 - Statement - Condensed Balance Sheets</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CondensedBalanceSheetsParenthetical" roleURI="http://www.highwaterethanol.com/role/
CondensedBalanceSheetsParenthetical">
      <link:definition>1001001 - Statement - Condensed Balance Sheets Parenthetical</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CondensedStatementsOfCashFlows" roleURI="http://www.highwaterethanol.com/role/
CondensedStatementsOfCashFlows">
      <link:definition>1005000 - Statement - Condensed Statements of Cash Flows</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="CondensedStatementsOfOperations" roleURI="http://www.highwaterethanol.com/role/
CondensedStatementsOfOperations">
      <link:definition>1002000 - Statement - Condensed Statements of Operations</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DebtFinancing" roleURI="http://www.highwaterethanol.com/role/DebtFinancing">
      <link:definition>2119100 - Disclosure - Debt Financing</link:definition>
      <link:usedOn>link:presentationLink</link:usedOn>
      <link:usedOn>link:calculationLink</link:usedOn>
      <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DebtFinancingNarrativeDetails" roleURI="http://www.highwaterethanol.com/role/
DebtFinancingNarrativeDetails">
```

```
        <link:definition>2419403 - Disclosure - Debt Financing -Narrative (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DebtFinancingScheduleOfLongTermDebtDetails" roleURI="http://www.highwaterethanol.com/
role/DebtFinancingScheduleOfLongTermDebtDetails">
        <link:definition>2419402 - Disclosure - Debt Financing -Schedule of long-term debt (Details)</link:
definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DebtFinancingScheduleOfMaturitiesOfLongTermDebtDetails" roleURI="http://www.
highwaterethanol.com/role/DebtFinancingScheduleOfMaturitiesOfLongTermDebtDetails">
        <link:definition>2419404 - Disclosure - Debt Financing -Schedule of maturities of long-term debt (
Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DebtFinancingTables" roleURI="http://www.highwaterethanol.com/role/DebtFinancingTables">
        <link:definition>2319301 - Disclosure - Debt Financing (Tables)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DerivativeInstruments" roleURI="http://www.highwaterethanol.com/role/
DerivativeInstruments">
        <link:definition>2113100 - Disclosure - Derivative Instruments</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DerivativeInstrumentsNarrativeDetails" roleURI="http://www.highwaterethanol.com/role/
DerivativeInstrumentsNarrativeDetails">
        <link:definition>2413402 - Disclosure - Derivative Instruments -Narrative (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DerivativeInstrumentsScheduleOfDerivativesInstrumentsDetails" roleURI="http://www.
highwaterethanol.com/role/DerivativeInstrumentsScheduleOfDerivativesInstrumentsDetails">
        <link:definition>2413403 - Disclosure - Derivative Instruments -Schedule of derivatives instruments (
Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DerivativeInstrumentsScheduleOfGainsLossesFromDerivativeInstrumentsDetails" roleURI="
http://www.highwaterethanol.com/role/DerivativeInstrumentsScheduleOfGainsLossesFromDerivativeInstrumentsDetails">
        <link:definition>2413404 - Disclosure - Derivative Instruments -Schedule of gains (losses) from
derivative instruments (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
    </link:roleType>
    <link:roleType id="DerivativeInstrumentsTables" roleURI="http://www.highwaterethanol.com/role/
DerivativeInstrumentsTables">
        <link:definition>2313301 - Disclosure - Derivative Instruments (Tables)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
```

```xml
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="DocumentAndEntityInformationDocument" roleURI="http://www.highwaterethanol.com/role/DocumentAndEntityInformationDocument">
        <link:definition>0001000 - Document - Document and Entity Information Document</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="FairValueMeasurements" roleURI="http://www.highwaterethanol.com/role/FairValueMeasurements">
        <link:definition>2116100 - Disclosure - Fair Value Measurements</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="FairValueMeasurementsDetails" roleURI="http://www.highwaterethanol.com/role/FairValueMeasurementsDetails">
        <link:definition>2416402 - Disclosure - Fair Value Measurements (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="FairValueMeasurementsTables" roleURI="http://www.highwaterethanol.com/role/FairValueMeasurementsTables">
        <link:definition>2316301 - Disclosure - Fair Value Measurements (Tables)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="Inventories" roleURI="http://www.highwaterethanol.com/role/Inventories">
        <link:definition>2107100 - Disclosure - Inventories</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="InventoriesNarrativeDetails" roleURI="http://www.highwaterethanol.com/role/InventoriesNarrativeDetails">
        <link:definition>2407403 - Disclosure - Inventories -Narrative (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="InventoriesScheduleOfInventoryDetails" roleURI="http://www.highwaterethanol.com/role/InventoriesScheduleOfInventoryDetails">
        <link:definition>2407402 - Disclosure - Inventories -Schedule of Inventory (Details)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="InventoriesTables" roleURI="http://www.highwaterethanol.com/role/InventoriesTables">
        <link:definition>2307301 - Disclosure - Inventories (Tables)</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
        <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="StatementsOfChangesInMembersEquityStatement" roleURI="http://www.highwaterethanol.com/role/StatementsOfChangesInMembersEquityStatement">
        <link:definition>1004000 - Statement - Statements of Changes in Members' Equity Statement</link:definition>
        <link:usedOn>link:presentationLink</link:usedOn>
        <link:usedOn>link:calculationLink</link:usedOn>
```

```xml
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPolicies" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPolicies">
          <link:definition>2101100 - Disclosure - Summary of Significant Accounting Policies</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPoliciesDisaggregationOfRevenueDetails" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPoliciesDisaggregationOfRevenueDetails">
          <link:definition>2401404 - Disclosure - Summary of Significant Accounting Policies -Disaggregation of revenue (Details)</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPoliciesNarrativeDetails" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPoliciesNarrativeDetails">
          <link:definition>2401403 - Disclosure - Summary of Significant Accounting Policies -Narrative (Details)</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPoliciesPolicies" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPoliciesPolicies">
          <link:definition>2201201 - Disclosure - Summary of Significant Accounting Policies (Policies)</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPoliciesSummaryOfContractAssetsAndLiabilitiesDetails" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPoliciesSummaryOfContractAssetsAndLiabilitiesDetails">
          <link:definition>2401405 - Disclosure - Summary of Significant Accounting Policies -Summary of contract assets and liabilities (Details)</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="SummaryOfSignificantAccountingPoliciesTables" roleURI="http://www.highwaterethanol.com/role/SummaryOfSignificantAccountingPoliciesTables">
          <link:definition>2301302 - Disclosure - Summary of Significant Accounting Policies (Tables)</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
      <link:roleType id="Uncertainties" roleURI="http://www.highwaterethanol.com/role/Uncertainties">
          <link:definition>2104100 - Disclosure - Uncertainties</link:definition>
          <link:usedOn>link:presentationLink</link:usedOn>
          <link:usedOn>link:calculationLink</link:usedOn>
          <link:usedOn>link:definitionLink</link:usedOn>
      </link:roleType>
    </xsd:appinfo>
  </xsd:annotation>
  <xsd:element abstract="true" id="highwater_A100PercentofNetIncomeMemberMember" name="A100PercentofNetIncomeMemberMember" nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_A75PercentofNetIncomeMember" name="A75PercentofNetIncomeMember"
```

```xml
nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_AgStarFinancialServicesPCAMember" name="
AgStarFinancialServicesPCAMember" nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType"
xbrli:periodType="duration" />
  <xsd:element id="highwater_AgreementInitialTerm" name="AgreementInitialTerm" nillable="true" substitutionGroup="
xbrli:item" type="xbrli:durationItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_AgreementSuccessiveTerm" name="AgreementSuccessiveTerm" nillable="true"
substitutionGroup="xbrli:item" type="us-types:durationStringItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_AnnualProductionCapacity" name="AnnualProductionCapacity" nillable="true"
substitutionGroup="xbrli:item" type="num:volumeItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_BasisMember" name="BasisMember" nillable="true" substitutionGroup="
xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_CornMember" name="CornMember" nillable="true" substitutionGroup="
xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_CornOilMember" name="CornOilMember" nillable="true"
substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_DebtInstrumentAnnualCapitalExpenditureLimit" name="
DebtInstrumentAnnualCapitalExpenditureLimit" nillable="true" substitutionGroup="xbrli:item" type="xbrli:
monetaryItemType" xbrli:balance="credit" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_DebtIssuanceCostsAbstract" name="DebtIssuanceCostsAbstract"
nillable="true" substitutionGroup="xbrli:item" type="xbrli:stringItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_DebtIssuanceCostsAccumulatedAmortizationinNextRollingTwelveMonths" name="
DebtIssuanceCostsAccumulatedAmortizationinNextRollingTwelveMonths" nillable="true" substitutionGroup="xbrli:item"
type="xbrli:monetaryItemType" xbrli:balance="debit" xbrli:periodType="instant" />
  <xsd:element id="highwater_DebtIssuanceCostsAccumulatedAmortizationinRollingYearFour" name="
DebtIssuanceCostsAccumulatedAmortizationinRollingYearFour" nillable="true" substitutionGroup="xbrli:item" type="
xbrli:monetaryItemType" xbrli:balance="debit" xbrli:periodType="instant" />
  <xsd:element id="highwater_DebtIssuanceCostsAccumulatedAmortizationinRollingYearThree" name="
DebtIssuanceCostsAccumulatedAmortizationinRollingYearThree" nillable="true" substitutionGroup="xbrli:item" type="
xbrli:monetaryItemType" xbrli:balance="debit" xbrli:periodType="instant" />
  <xsd:element id="highwater_DebtIssuanceCostsAccumulatedAmortizationinRollingYearTwo" name="
DebtIssuanceCostsAccumulatedAmortizationinRollingYearTwo" nillable="true" substitutionGroup="xbrli:item" type="
xbrli:monetaryItemType" xbrli:balance="debit" xbrli:periodType="instant" />
  <xsd:element abstract="true" id="highwater_DenaturantMember" name="DenaturantMember" nillable="true"
substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_DistillersGrainMember" name="DistillersGrainMember" nillable="true"
substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_DocumentAndEntityInformationAbstract" name="
DocumentAndEntityInformationAbstract" nillable="true" substitutionGroup="xbrli:item" type="xbrli:stringItemType"
xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_EthanolMember" name="EthanolMember" nillable="true"
substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_GrainOriginationAgreementMember" name="
GrainOriginationAgreementMember" nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType"
xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_LawrencevilleTankLLCMember" name="LawrencevilleTankLLCMember"
nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_LetterofCreditInterestRateatPeriodEnd" name="LetterofCreditInterestRateatPeriodEnd"
nillable="true" substitutionGroup="xbrli:item" type="num:percentItemType" xbrli:periodType="instant" />
  <xsd:element id="highwater_LongtermDebtMaturitiesRepaymentsofPrincipalinNextRollingTwelveMonthsGross" name="
LongtermDebtMaturitiesRepaymentsofPrincipalinNextRollingTwelveMonthsGross" nillable="true" substitutionGroup="
xbrli:item" type="xbrli:monetaryItemType" xbrli:balance="credit" xbrli:periodType="instant" />
  <xsd:element id="highwater_LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearFourGross" name="
LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearFourGross" nillable="true" substitutionGroup="xbrli:item"
type="xbrli:monetaryItemType" xbrli:balance="credit" xbrli:periodType="instant" />
  <xsd:element id="highwater_LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearThreeGross" name="
LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearThreeGross" nillable="true" substitutionGroup="xbrli:
item" type="xbrli:monetaryItemType" xbrli:balance="credit" xbrli:periodType="instant" />
  <xsd:element id="highwater_LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearTwoGross" name="
LongtermDebtMaturitiesRepaymentsofPrincipalinRollingYearTwoGross" nillable="true" substitutionGroup="xbrli:item"
type="xbrli:monetaryItemType" xbrli:balance="credit" xbrli:periodType="instant" />
  <xsd:element abstract="true" id="highwater_MembersEquityRollForward" name="MembersEquityRollForward" nillable="
```

```xml
true" substitutionGroup="xbrli:item" type="xbrli:stringItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_ModifiedDistillersGrainMember" name="ModifiedDistillersGrainMember"
nillable="true" substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element id="
highwater_NonmonetaryNotionalAmountofPriceRiskDerivativeInstrumentsNotDesignatedasHedgingInstrumentsPurchaseContra
cts" name="
NonmonetaryNotionalAmountofPriceRiskDerivativeInstrumentsNotDesignatedasHedgingInstrumentsPurchaseContracts"
nillable="true" substitutionGroup="xbrli:item" type="xbrli:decimalItemType" xbrli:periodType="instant" />
  <xsd:element id="highwater_NumberofCornOilPurchaseFailures" name="NumberofCornOilPurchaseFailures" nillable="
true" substitutionGroup="xbrli:item" type="xbrli:integerItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_PercentageofVariation" name="PercentageofVariation" nillable="true"
substitutionGroup="xbrli:item" type="num:percentItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_PurchaseCommitmentRemainingMinimumAmountCommittedEnergy" name="
PurchaseCommitmentRemainingMinimumAmountCommittedEnergy" nillable="true" substitutionGroup="xbrli:item" type="num:
energyItemType" xbrli:periodType="instant" />
  <xsd:element id="highwater_PurchaseCommitmentRemainingMinimumAmountCommittedVolume" name="
PurchaseCommitmentRemainingMinimumAmountCommittedVolume" nillable="true" substitutionGroup="xbrli:item" type="num:
volumeItemType" xbrli:periodType="instant" />
  <xsd:element id="highwater_RelatedPartyContractTerminationnotice" name="RelatedPartyContractTerminationnotice"
nillable="true" substitutionGroup="xbrli:item" type="xbrli:durationItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_RelatedPartyTransactionFeesPercentageOfTotal" name="
RelatedPartyTransactionFeesPercentageOfTotal" nillable="true" substitutionGroup="xbrli:item" type="num:
percentItemType" xbrli:periodType="instant" />
  <xsd:element id="highwater_RelatedPartyTransactionMarketingExpensePerUnit" name="
RelatedPartyTransactionMarketingExpensePerUnit" nillable="true" substitutionGroup="xbrli:item" type="xbrli:
monetaryItemType" xbrli:balance="debit" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_RenewableFuelsMarketingGroupRpmgMember" name="
RenewableFuelsMarketingGroupRpmgMember" nillable="true" substitutionGroup="xbrli:item" type="nonnum:
domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_TermLoanMember" name="TermLoanMember" nillable="true"
substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element abstract="true" id="highwater_TermRevolvingLoanMember" name="TermRevolvingLoanMember" nillable="
true" substitutionGroup="xbrli:item" type="nonnum:domainItemType" xbrli:periodType="duration" />
  <xsd:element id="highwater_Vehicles" name="Vehicles" nillable="true" substitutionGroup="xbrli:item" type="xbrli:
monetaryItemType" xbrli:balance="debit" xbrli:periodType="instant" />
  <xsd:element id="highwater_WorkingCapitalRequirement" name="WorkingCapitalRequirement" nillable="true"
substitutionGroup="xbrli:item" type="xbrli:monetaryItemType" xbrli:balance="debit" xbrli:periodType="duration" />
</xsd:schema>
```