



**FACTSHEET**  
**(pursuant to NAC 445A.236)**

**Permittee Name:** SMITH VALLEY CATTLE FEEDERS  
500 HUDSON WAY  
SMITH, NV - 89430

**Permit Number:** NV0023540

**Location:** SMITH VALLEY CATTLE FEEDERS, LYON  
500 HUDSON WAY, SMITH, NV - 89430  
LATITUDE: 38.835640, LONGITUDE: -119.291350  
TOWNSHIP: T11N, RANGE: R24E, SECTION: S9

| Outfall / Well Num | Outfall / Well Name                                    | Location Type    | Well Log Num | Outfall City | Outfall State | Outfall Zip | Outfall County | Latitude    | Longitude   | Receiving Water                           |
|--------------------|--|------------------|--------------|--------------|---------------|-------------|----------------|-------------|-------------|---|
| 001                | FEEDLOT TOTALS   | Internal Outfall | 36163        | SMITH        | NV            | 89430       | LYON           | 38.83222198 | -119.297501 | WATERS OF THE STATE AND WEST WALKER RIVER |
| 002                | EVAPORATION BASIN (WEST STORMWATER RETENTION BASIN)    | Internal Outfall | 53835        | SMITH        | NV            | 89430       | LYON           | 38.832220   | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |
| 003                | EVAPORATION BASIN (MIDDLE STORMWATER RETENTION BASIN)  | Internal Outfall |              | SMITH        | NV            | 89430       | LYON           | 38.83222198 | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |
| 004                | EVAPORATION BASIN (EAST STORMWATER RETENTION BASIN #1) | Internal Outfall | 53836        | SMITH        | NV            | 89430       | LYON           | 38.832220   | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |
| 005                | EVAPORATION BASIN (EAST RETENTION BASIN #2)            | Internal Outfall |              | SMITH        | NV            | 89430       | LYON           | 38.832220   | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |
| 006                | STORMWATER DISCHARGE AT PROPERTY BOUNDARY              | External Outfall |              | SMITH        | NV            | 89430       | LYON           | 38.832220   | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |
| 007                | MANURE TESTING AND TRANSFER                            | External Outfall |              | SMITH        | NV            | 89430       | LYON           | 38.832220   | -119.2975   | WATERS OF THE STATE AND WEST WALKER RIVER |

**General:**

The Permittee, Smith Valley Cattle Feeders (SVCF), has applied for renewal of their National Pollutant Discharge Elimination System (NPDES) permit NV0023540, to discharge manure and production area runoff in the event of a 25-year, 24-hour storm or chronic precipitation event. The SVCF site is located in Smith Valley on the south side of Hudson Way, one mile east of Highway 338.

SVCF is defined as a concentrated animal feeding operation (CAFO) because the facility has indicated, by application, they will confine at least 1000 cattle for 30 days or more in a 12-month period, in an area devoid of vegetation during the normal growing season. Maximum capacity for the facility has been designed to house 25,000 head of combined beef cattle and dairy heifers. Animal numbers fluctuate throughout the year as they are bought and sold.

As a CAFO, SVCF is required to contain all manure and run-off from the production area. An exception to this is a precipitation overflow resulting from a 25-year, 24-hour or larger storm event or a chronic storm condition. To qualify for this exception, the production area must be properly designed, constructed, operated, and maintained to contain manure, direct precipitation and the runoff from a qualifying storm event. Facility construction for SVCF is industry-typical pipe and cable fence, concrete feed aprons and feed bunks, feed alleys and cattle movement alleys, feed storage areas and associated storage structures and maintenance facilities, waste management and control structures.

Flood maps indicate SVCF is located within a mapped 100-year floodplain. Berms, ranging from 2 to 5 feet high, have been constructed to divert feedlot runoff to on-site retention ponds, and to divert the 100-year flood around the facility.

#### **Discharge Characteristics:**

The primary source of production area run-off from SVCF is made up of manure mixed with associated precipitation events and incidental water usage for animal consumption. Stormwater retention basin storage capacities at the SVCF exceed the volumes required for containment of the 25-year, 24 hour storm event. The West Retention Basin has been constructed to contain 7.79 acre-feet (ac-ft) of production area runoff with a drainage area of 70.4 acres. The Middle Retention Basin has been constructed to contain 3.43 ac-ft of production area runoff with a drainage area of 26.6 acres. The East Retention Basin #1 and East Retention Basin #2 have been constructed to contain 5.80 ac-ft and 2.01 ac-ft respectively, of production area runoff with a combined drainage area of 74.9 acres.

#### **Receiving Water:**

The Permittee will use a combination of evaporation and off-site transfer to manage manure and production area runoff. The Permittee may discharge manure and production area runoff in response to storm events or chronic rainfall events that exceed the 25-year 24-hour storm design, provided that the facility's production areas are properly designed, constructed, operated and maintained to contain manure, pollutants, direct precipitation and the runoff from a 25-year, 24-hour storm event.

#### **Summary of Changes From Previous Permit:**

The structure of the permit has been revised to include outfall designations.

The requirement to monitor fecal coliform as part of the manure testing and transfer has been removed from the permit.

The requirement to monitor fecal coliform in the evaporation ponds has been removed from the permit.

The nitrogen species monitoring in all tables has been removed and replaced with Total Nitrogen monitoring only.

#### **Proposed Effluent Limitations:**

There shall be no discharge from the facility property except as authorized by this permit.

During the period beginning on the effective date of this permit, the Permittee is authorized to discharge manure and production area runoff to Waters of the state in response to storm events or chronic rainfall

events that exceed the 25-year 24-hour storm design, provided that the production area is properly designed, constructed, operated and maintained to contain manure, pollutants, direct precipitation and the runoff from the 25-year 24-hour storm event.

**CAFO Discharge Limitations Table for Feedlot Totals**

| Parameter                       | Discharge Limitations |          |                   | Monitoring Requirements   |            |                       |                       |
|---------------------------------|-----------------------|----------|-------------------|---------------------------|------------|-----------------------|-----------------------|
|                                 | Base                  | Quantity | Concentration     | Monitoring Loc            | Sample Loc | Measurement Frequency | Sample Type           |
| Animals, total estimated no. of | 30 Day Average        |          | M&R Number (#)    | Internal Monitoring Point | 001        | Monthly               | CALCTD                |
| Manure, wet tons total          | 30 Day Average        |          | M&R Tons (ton)    | Internal Monitoring Point | 001        | Monthly               | ESTIMA                |
| Manure, wet tons removed        | 30 Day Average        |          | M&R Tons (ton)    | Internal Monitoring Point | 001        | Monthly               | ESTIMA <sup>[1]</sup> |
| Manure removed, gallons         | 30 Day Average        |          | M&R Gallons (gal) | Internal Monitoring Point | 001        | Weekly                | ESTIMA <sup>[1]</sup> |
| Manure remaining, gallons       | 30 Day Average        |          | M&R Gallons (gal) | Internal Monitoring Point | 001        | Weekly                | ESTIMA <sup>[2]</sup> |

Notes (CAFO Discharge Limitations Table):

1. Estimate based on number of truck loads.
2. Estimate based on stormwater retention basin depth as provided by the depth marker.

**CAFO Discharge Limitations Table for Sample Location 002 (West Retention Basin) To Be Reported Semi Annually**

| Discharge Limitations    |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Solids, total suspended  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| BOD, 5-day               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| Solids, total dissolved  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| Nitrogen, total          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| pH, maximum              | Daily Maximum |          | M&R Standard Units (SU)         | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| pH, minimum              | Daily Minimum |          | M&R Standard Units (SU)         | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| Chloride (as Cl)         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 002        | Semiannual            | DISCRT      |

**CAFO Discharge Limitations Table for Sample Location 003 (Middle Retention Basin) To Be Reported Semi Annually**

| Discharge Limitations    |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Chloride (as Cl)         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| Solids, total dissolved  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| Nitrogen, total          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| pH, maximum              | Daily Maximum |          | M&R Standard Units (SU)         | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| pH, minimum              | Daily Minimum |          | M&R Standard Units (SU)         | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| Solids, total suspended  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |
| BOD, 5-day               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Semiannual            | DISCRT      |

**CAFO Discharge Limitations Table for Sample Location 004 (East Retention Basin #1) To Be Reported Semi Annually**

| Discharge Limitations    |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Nitrogen, total          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| pH, maximum              | Daily Maximum |          | M&R Standard Units (SU)         | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| Chloride (as Cl)         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| Solids, total dissolved  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| pH, minimum              | Daily Minimum |          | M&R Standard Units (SU)         | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| Solids, total suspended  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |
| BOD, 5-day               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 004        | Semiannual            | DISCRT      |

**CAFO Discharge Limitations Table for Sample Location 005 (East Retention Basin #2) To Be Reported Semi Annually**

| Discharge Limitations    |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| pH, maximum              | Daily Maximum |          | M&R Standard Units (SU)         | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| pH, minimum              | Daily Minimum |          | M&R Standard Units (SU)         | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| Chloride (as Cl)         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| Solids, total dissolved  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| Nitrogen, total          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| Solids, total suspended  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |
| BOD, 5-day               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 005        | Semiannual            | DISCRT      |

**CAFO Discharge Limitations Table for Sample Location 007 (Manure Testing And Transfer) To Be Reported Semi Annually**

| Discharge Limitations    |               |          |                                     | Monitoring Requirements   |            |                       |             |
|--------------------------|---------------|----------|-------------------------------------|---------------------------|------------|-----------------------|-------------|
| Parameter                | Base          | Quantity | Concentration                       | Monitoring Loc            | Sample Loc | Measurement Frequency | Sample Type |
| Manure, wet tons removed | Annual Total  |          | M&R Tons (ton)                      | Internal Monitoring Point | 007        | Annual                | CALCTD      |
| Nitrogen, total          | Daily Maximum |          | M&R Milligrams per Kilogram (mg/kg) | Internal Monitoring Point | 007        | Annual                | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum |          | M&R Milligrams per Liter (mg/L)     | Internal Monitoring Point | 007        | Annual                | DISCRT      |

## Stormwater Discharges for Sample Location 006 (Stormwater Discharge) To Be Reported Annually

| Parameter                | Discharge Limitations |                            |  | Monitoring Requirements |            |                       |             |
|--------------------------|-----------------------|----------------------------|--|-------------------------|------------|-----------------------|-------------|
|                          | Base                  | Quantity                   | Concentration                                    | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Flow, total              | Daily Maximum         | M&R Million Gallons (Mgal) |  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Solids, total dissolved  | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| BOD, 5-day               | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Nitrogen, total          | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Phosphorus, total (as P) | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Coliform, fecal general  | Daily Maximum         |                            | M&R Most Probable Number per 100ml T (MPN/100mL) | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| pH, minimum              | Daily Minimum         |                            | M&R Standard Units (SU)                          | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| pH, maximum              | Daily Maximum         |                            | M&R Standard Units (SU)                          | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Chloride (as Cl)         | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |
| Solids, total suspended  | Daily Maximum         |                            | M&R Milligrams per Liter (mg/L)                  | Receiving Water         | 006        | Report <sup>[1]</sup> | DISCRT      |

### Notes (Stormwater Discharges):

1. The Permittee shall report the date and time of each discharge and collect the sample within 30 minutes of first knowledge of the stormwater discharge. If sampling in that period is not possible due to dangerous weather conditions, the Permittee shall collect the sample as soon as possible after suitable conditions occur. The reason for the delay shall be documented.

### Rationale for Permit Requirements:

Monitoring requirements for the parameters specified in the Discharge Tables of this permit are established to ensure that the Permittee has appropriate manure and production area runoff data to comply with the Division-Reviewed comprehensive manure and production area management plan and to determine any

potential impacts to waters of the State that may occur in response to storm related discharge.

**Special Conditions:**

## SA – Special Approvals / Conditions Table

| Item # | Description   |
|--------|---|
| 1      | As indicated in the facility Operations and Maintenance Manual:<br><u>Collection Function Requirements</u> - The total required storage for the 25-year, 24-hour storm event is 17.01 acre-feet.<br><u>Transfer Function Requirements</u> - All manure solids are transferred off-site. All liquid manure is evaporated or transferred off-site.<br><u>System Evaluation</u> - There are no permitted land application areas associated with this permit. |
| 2      | Part A, Section A.6 - does not apply to this permit. A Certified Operator is not required for this facility.  |
| 3      | Part B, Section B.CO.4 - does not apply to this permit. Applies only to Swine, Poultry and Veal Calf operations.  |
| 4      | Part B, Section B.CO.23 - does not apply to this permit. There is no land application activity associated with this facility.   |
| 5      | Part C, Section C.1.35 - does not apply to this permit. This section references treatment of domestic sewage in treatment works.  |
| 6      | Part C, Section C.1.41 - does not apply to this permit. This section references land application of domestic sewage. There is no land application activity associated with this facility.   |
| 7      | Part C, Section C.13 - does not apply to this permit. This section is for biosolids management from treatment facilities. Manure management at this facility is specifically addressed in the Division reviewed Operations and Maintenance Manual.  |

**Flow:**

The proposed permit authorizes the discharge of manure and production area runoff in response to storm events that exceed the 25-year, 24-hour storm event provided the facility is appropriately constructed and maintained. The stormwater discharge flow rate will not be limited by the permit and will be dependent upon the magnitude of the design storm event.

**Corrective Action Sites:**

There are no Bureau of Corrective Actions sites within a one mile radius of SVCF.

**Wellhead Protection Program:**

SVCF is not located within an established Drinking Water Protection Area or Wellhead Protection Area.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

| Item # | Description   | Due Date   |
|--------|---|------------|
| 1      | <p>To gather background data, the Permittee shall submit to the Division the results of a groundwater analysis from a down-gradient well listed in the permit application. The groundwater shall be analyzed for the following:</p> <ol style="list-style-type: none"> <li>1. Depth to water level (ft) below the land surface.</li> <li>2. Solids, total dissolved (mg/L)</li> <li>3. pH (SU)</li> <li>4. Chloride (as Cl) (mg/L)</li> <li>5. Total Nitrogen (mg/L)</li> </ol> | 10/1/2016  |
| 2      | <p>By December 16, 2016 all Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website;<br/> <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a></p>   | 12/16/2016 |

**Deliverable Schedule:**

## DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

| Item # | Description                              | Interval      | First Scheduled Due Date |
|--------|--|---------------|--------------------------|
| 1      | Quarterly Discharge Monitoring Reports   | Quarterly     | 4/28/2016                |
| 2      | Semi-Annual Discharge Monitoring Reports | Semi Annually | 7/28/2016                |
| 3      | Annual Report                            | Annually      | 1/28/2017                |

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to surface waters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal and Mason Valley News** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **3/28/2016** , a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination:**

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Michele Reid**

Date: **2/16/2016**

Title: **Staff II Associate Engineer**