

BRIAN SANDOVAL
Governor

STATE OF NEVADA

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC AND BEHAVIORAL HEALTH
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May 18, 2018

MEMORANDUM

To: Beatty File

From: John Follette, Radiation Control Specialist 

Subject: Beatty Inspection Summary May 16, 2018

An inspection of the Beatty Low-Level Waste landfill (closed) was conducted on May 16, 2018 by Haley Brown and John Follette. The radiological survey was performed by driving the BNC Model RD-120 GN (SN 120009) backpack around the site boundary access road and in a grid pattern across the cap to detect radiological anomalies. None were detected. Dose rate readings on the cap remain about twice background*, as read on the access road.

Status of Previous Inspection Items:

The markers for the trenches are not in place on the cap. They are still stacked off to the side of the cap, inside of the fenced area.

Radiological Postings Adequate:

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

Site Boundary Fence Undamaged and Gate(s) Locked:

There are some areas along the north fence where the metal fence posts are bent and the fence is losing integrity. See enclosed pictures.

- The fence has been repaired. See attached pictures.

Erosion, Fissures, Water Pooling, or Subsidence Concerns:

One erosion area was identified along the East fence. It is about 30 inches across and 10 inches deep.

- The erosion has been repaired. See attached picture.

Site Observations:

Radiological Postings Adequate:

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

Site Boundary Fence Undamaged and Gate(s) Locked: Yes.

The damage to the north fence identified during the February 7, 2018 inspection has been repaired.

See attached pictures.

Site Boundary, Access Road, and Buffer Areas Maintained: Yes

Rain Since Last Inspection:

February - 0.002", March - 0.5", April - 0.01", and May - 0.11" as of May 16, 2018.

Erosion, Fissures, Water Pooling, or Subsidence Concerns: None

The erosion along the East fence that was identified during the February 7, 2018 inspection has been repaired. See attached picture.

Radiation Survey Results:

Instrument: BNC Model RD-120 GN (SN 120009) Calibration date: Daily by self-calibration

Background Location: Between US 95 and the site, at the south-east side of the site entrance gate.

Background measurement: 16-20 urem/hr

Value used for twice background: 40 urem/hr

Site Boundary Highest Measurement: Within twice background*

Cap Highest Measurement: Within twice background*

*If sustained radiation measurements are above twice background, record the measurement and identify the location. Otherwise, indicate all measurements were within twice background.

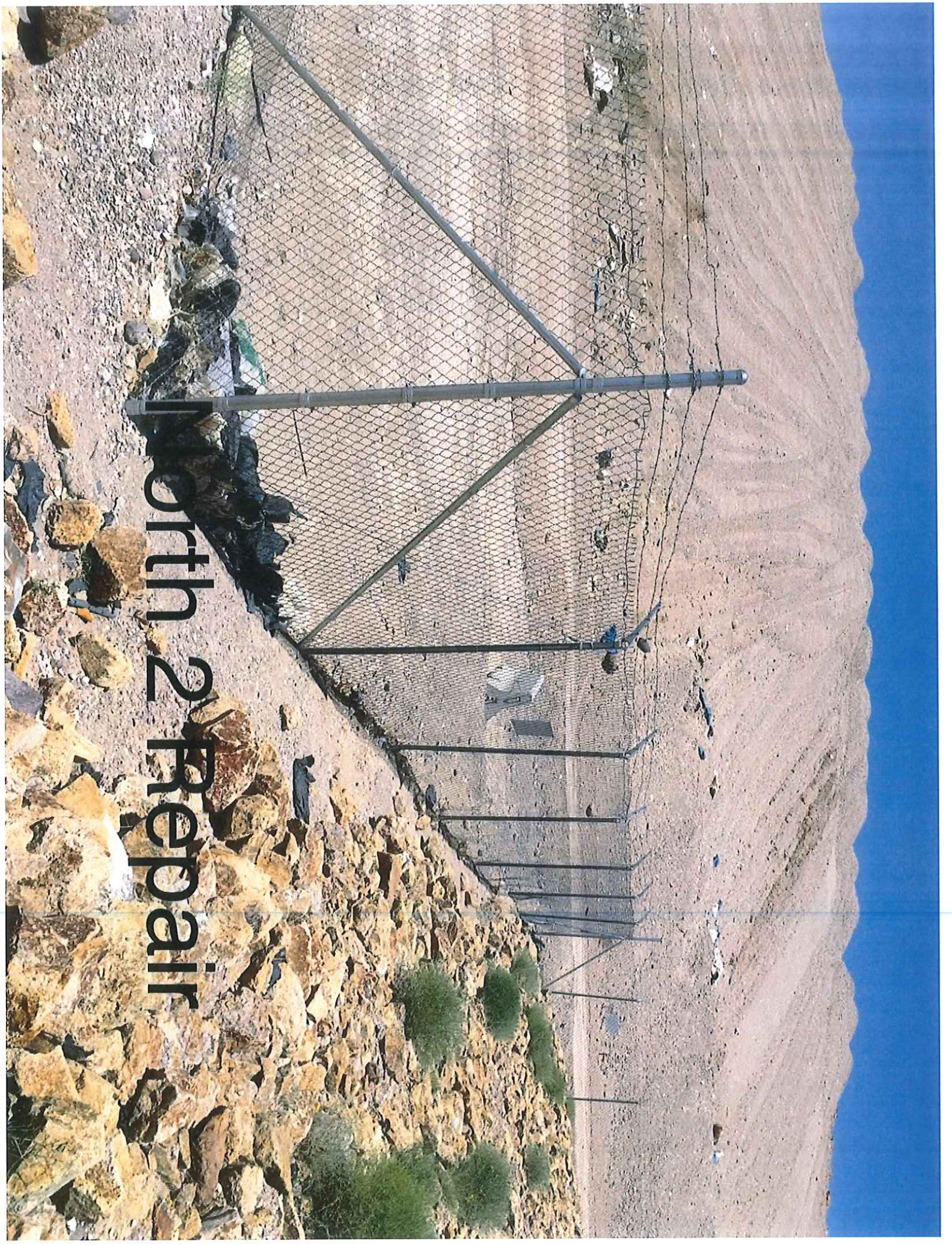
For any reading above 0.5 mrem/hr contact a supervisor or the State of Nevada Radiation Control Program Manager. (Site Stabilization and Closure Plan Closure Plan for Low-Level Radioactive Waste Management Facility US Ecology, Inc. Beatty, Nevada, submittal date December 1988.)

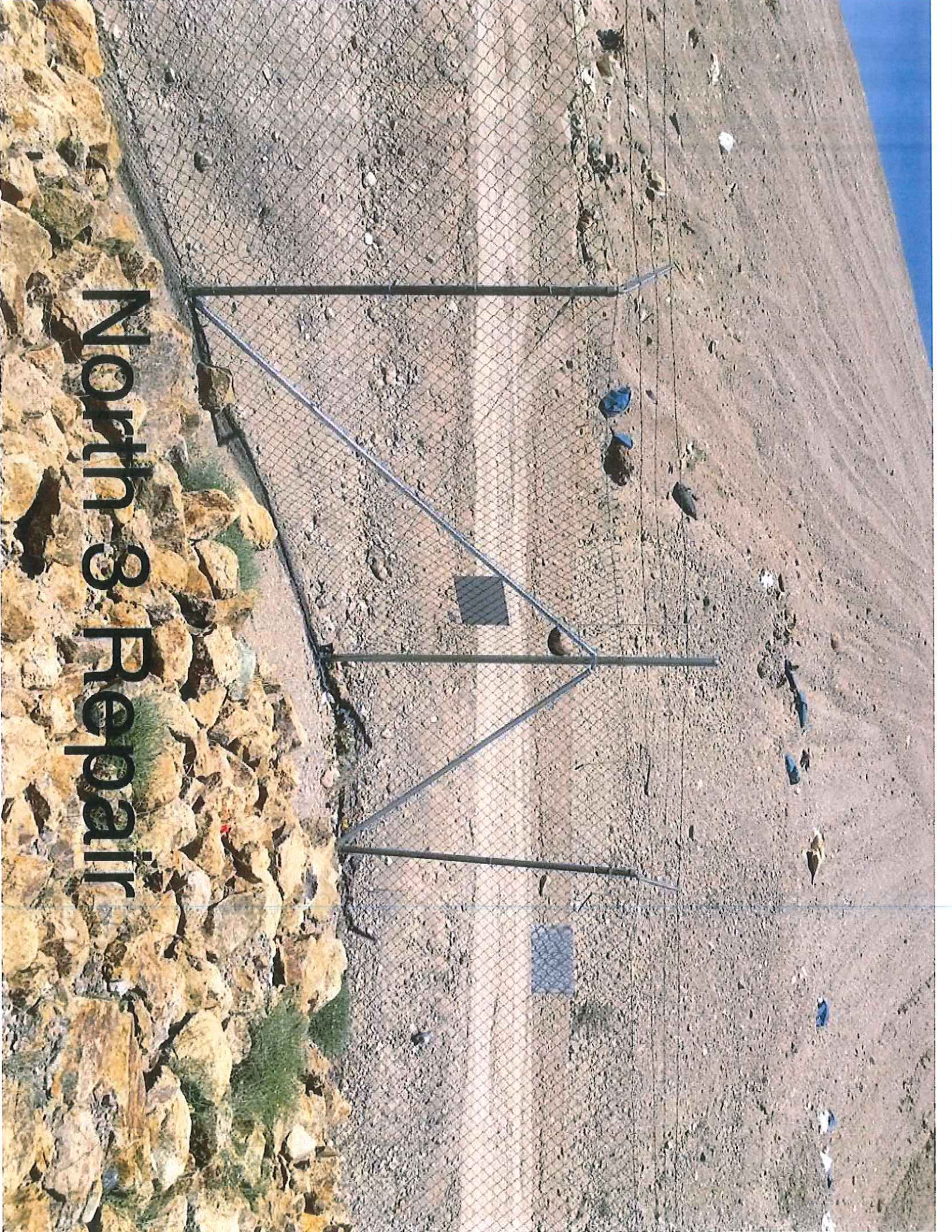
| | | |
|-----------|-----------------|--|
| Contacts: | Karen Beckley: | 775-687-7540, kbeckley@health.nv.gov |
| | Adrian Howe: | 775-687-7531, ahowe@health.nv.gov |
| | Glen Gimenez: | 775-687-7542, glgimenez@health.nv.gov |
| | John Follette: | 702-486-3017, jfollette@health.nv.gov |
| | Brandie Peretz: | 702-486-5286, bperetz@health.nv.gov |
| | Haley Brown: | 702-486-3015, habrown@health.nv.gov |



North 1 repair

North 2 Repair





North 3 Repair



East 1 Repair

Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

February, 2018

| Day of Month | Day of Year | Total Solar Rad. ly. | Wind | | Air Temperature | | | Humidity | | | Dew Point | Wet Bulb | Total Precip inches | |
|--------------------|-------------------|-------------------------------|------------|-------------------|--------------------|------|-----|----------|----------|---------|--------------|-------------|---------------------------|---------|
| | | | Ave mph | V. Dir. Deg | Max mph | Mean | Max | Min | Mea n | Ma x | | | | Mi n |
| 1 | 32 | 279 | 4.4 | 113 | 21.4 | 59 | 74 | 47 | 18 | 27 | 11 | 15 | 40 | 0.00 |
| 2 | 33 | 348 | 6.8 | 290 | 23.4 | 62 | 77 | 49 | 23 | 33 | 16 | 23 | 44 | 0.00 |
| 3 | 34 | 344 | 18.8 | 323 | 36.5 | 65 | 74 | 53 | 23 | 36 | 14 | 25 | 46 | 0.00 |
| 4 | 35 | 336 | 12.1 | 316 | 30.6 | 63 | 74 | 53 | 23 | 36 | 13 | 23 | 44 | 0.00 |
| 5 | 36 | 365 | 9.0 | 301 | 27.1 | 61 | 78 | 47 | 23 | 39 | 12 | 22 | 43 | 0.00 |
| 6 | 37 | 372 | 14.7 | 322 | 31.4 | 60 | 68 | 50 | 17 | 27 | 10 | 15 | 41 | 0.00 |
| 7 | 38 | 379 | 4.0 | 236 | 14.9 | 56 | 72 | 40 | 19 | 33 | 9 | 13 | 38 | 0.00 |
| 8 | 39 | 381 | 4.0 | 139 | 14.4 | 59 | 77 | 46 | 18 | 28 | 11 | 15 | 40 | 0.00 |
| 9 | 40 | 380 | 7.3 | 315 | 22.8 | 62 | 78 | 45 | 18 | 32 | 9 | 16 | 42 | 0.00 |
| 10 | 41 | 342 | 15.5 | 343 | 55.2 | 56 | 70 | 46 | 15 | 26 | 6 | 8 | 38 | 0.00 |
| 11 | 42 | 357 | 9.6 | 136 | 27.3 | 47 | 59 | 32 | 12 | 22 | 7 | -4 | 31 | 0.00 |
| 12 | 43 | 321 | 11.5 | 335 | 29.7 | 46 | 56 | 34 | 30 | 55 | 14 | 15 | 34 | 0.00 |
| 13 | 44 | 365 | 6.9 | 317 | 25.6 | 47 | 59 | 38 | 36 | 56 | 25 | 21 | 36 | 0.00 |
| 14 | 45 | 337 | 6.6 | 219 | 20.0 | 50 | 62 | 38 | 39 | 53 | 27 | 25 | 38 | 0.00 |
| 15 | 46 | 414 | 17.2 | 327 | 35.6 | 50 | 58 | 38 | 26 | 66 | 12 | 13 | 36 | 0.00 |
| 16 | 47 | 415 | 4.6 | 221 | 17.6 | 47 | 63 | 31 | 19 | 34 | 9 | 5 | 32 | 0.00 |
| 17 | 48 | 419 | 5.2 | 195 | 17.3 | 51 | 66 | 37 | 19 | 30 | 13 | 10 | 35 | 0.00 |
| 18 | 49 | 420 | 10.8 | 226 | 42.3 | 52 | 71 | 33 | 21 | 34 | 12 | 13 | 36 | 0.00 |
| 19 | 50 | 298 | 25.4 | 336 | 43.2 | 39 | 51 | 33 | 21 | 33 | 10 | 2 | 28 | 0.00 |
| 20 | 51 | 440 | 11.4 | 306 | 27.5 | 35 | 46 | 25 | 23 | 43 | 9 | -0 | 25 | 0.00 |
| 21 | 52 | 416 | 4.2 | 275 | 16.5 | 38 | 50 | 26 | 16 | 23 | 9 | -4 | 26 | 0.00 |
| 22 | 53 | 415 | 8.3 | 287 | 22.5 | 38 | 54 | 22 | 25 | 42 | 15 | 5 | 27 | 0.00 |
| 23 | 54 | 389 | 19.0 | 337 | 40.9 | 37 | 45 | 28 | 30 | 49 | 15 | 8 | 28 | 0.00 |
| 24 | 55 | 395 | 7.6 | 292 | 19.6 | 36 | 49 | 24 | 24 | 39 | 12 | 3 | 26 | 0.00 |
| 25 | 56 | 454 | 6.3 | 274 | 18.1 | 43 | 55 | 30 | 28 | 49 | 15 | 11 | 31 | 0.00 |
| 26 | 57 | 456 | 11.2 | 206 | 32.3 | 45 | 63 | 25 | 24 | 39 | 10 | 9 | 32 | 0.00 |
| 27 | 58 | 162 | 11.5 | 301 | 32.0 | 43 | 50 | 38 | 57 | 89 | 26 | 28 | 36 | 0.02 |
| 28 | 59 | 469 | 11.1 | 193 | 35.8 | 45 | 57 | 34 | 38 | 52 | 24 | 21 | 35 | 0.00 |

MONTHLY STATISTICS

| | Total Solar Rad. ly. | Wind | | Air Temperature | | | Humidity | | | Dew | Wet | Total | |
|-------|-------------------------------|----------|------------|--------------------|--------------------|------|----------|----------|---------|---------|--------------------|-------|-------------|
| | | Ave . | V. Dir. | Max . | Mean | Max | Min | Mea n | Ma x | Mi n | Point | Bulb | Precip . |
| | | mph | Deg | mph | Deg. Fahrenheit | | | Percent | | | Deg. Fahrenheit | | inches |
| Total | 10467 | | | | | | | | | | | 0.02 | |
| Ave. | 374 | 10.2 | 306 | 27.9 | 49.8 | 62.7 | 37.2 | 25 | 40 | 13 | 13 | 35 | |
| Max. | 469 | 25.4 | | 55.2 | 65 | 78 | 53 | 57 | 89 | 27 | 28 | 46 | 0.02 |
| Min. | 162 | 4.0 | | 14.4 | 35 | 45 | 22 | 12 | 22 | 6 | -4 | 25 | 0.00 |

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

March, 2018

| Day of Month | Day of Year | Total Solar Rad. ly. | Wind | | Air Temperature | | | Humidity | | | Dew Point Deg. Fahrenheit | Wet Bulb Deg. Fahrenheit | Total Precip inches | |
|--------------------|-------------------|-------------------------------|------------|-------------------|--------------------|------|-----|----------|----------|---------|------------------------------------|-----------------------------------|---------------------------|---------|
| | | | Ave mph | V. Dir. Deg | Max mph | Mean | Max | Min | Mea n | Ma x | | | | Mi n |
| 1 | 60 | 435 | 16.8 | 145 | 37.8 | 50 | 61 | 42 | 39 | 53 | 26 | 25 | 39 | 0.00 |
| 2 | 61 | 452 | 14.2 | 160 | 34.2 | 54 | 67 | 44 | 42 | 63 | 23 | 31 | 42 | 0.00 |
| 3 | 62 | 433 | 16.8 | 196 | 39.9 | 49 | 60 | 36 | 41 | 69 | 24 | 26 | 39 | 0.00 |
| 4 | 63 | 490 | 12.9 | 322 | 30.7 | 41 | 51 | 30 | 40 | 78 | 17 | 16 | 32 | 0.00 |
| 5 | 64 | 500 | 5.8 | 306 | 22.7 | 44 | 57 | 29 | 23 | 46 | 9 | 7 | 31 | 0.00 |
| 6 | 65 | 495 | 3.7 | 294 | 12.9 | 50 | 68 | 34 | 13 | 23 | 5 | -2 | 33 | 0.00 |
| 7 | 66 | 226 | 4.5 | 281 | 14.9 | 49 | 65 | 37 | 15 | 27 | 7 | 2 | 33 | 0.00 |
| 8 | 67 | 463 | 5.3 | 252 | 12.9 | 52 | 69 | 35 | 15 | 24 | 7 | 4 | 34 | 0.00 |
| 9 | 68 | 481 | 5.9 | 199 | 17.3 | 57 | 73 | 40 | 18 | 30 | 8 | 11 | 38 | 0.00 |
| 10 | 69 | 226 | 7.9 | 154 | 25.2 | 55 | 66 | 48 | 46 | 94 | 20 | 32 | 44 | 0.31 |
| 11 | 70 | 369 | 3.7 | 278 | 11.0 | 56 | 68 | 47 | 67 | 94 | 36 | 44 | 49 | 0.05 |
| 12 | 71 | 445 | 4.8 | 250 | 14.4 | 58 | 72 | 45 | 57 | 84 | 29 | 41 | 48 | 0.00 |
| 13 | 72 | 414 | 9.7 | 188 | 29.3 | 61 | 76 | 49 | 52 | 73 | 27 | 42 | 50 | 0.00 |
| 14 | 73 | 481 | 14.9 | 165 | 34.9 | 58 | 68 | 48 | 39 | 64 | 16 | 32 | 45 | 0.00 |
| 15 | 74 | 471 | 9.6 | 132 | 27.2 | 51 | 62 | 42 | 41 | 74 | 17 | 27 | 40 | 0.04 |
| 16 | 75 | 551 | 14.4 | 153 | 29.5 | 51 | 66 | 42 | 34 | 50 | 16 | 23 | 39 | 0.00 |
| 17 | 76 | 477 | 9.1 | 203 | 35.9 | 48 | 59 | 40 | 43 | 60 | 15 | 25 | 38 | 0.00 |
| 18 | 77 | 534 | 11.4 | 317 | 31.1 | 49 | 59 | 40 | 24 | 59 | 10 | 12 | 35 | 0.00 |
| 19 | 78 | 553 | 4.5 | 255 | 16.7 | 53 | 66 | 40 | 19 | 34 | 8 | 10 | 36 | 0.00 |
| 20 | 79 | 369 | 6.0 | 244 | 21.2 | 54 | 66 | 39 | 23 | 52 | 12 | 15 | 38 | 0.00 |
| 21 | 80 | 333 | 8.3 | 162 | 19.1 | 57 | 68 | 44 | 56 | 81 | 36 | 41 | 48 | 0.00 |
| 22 | 81 | 92 | 13.6 | 153 | 32.7 | 58 | 64 | 54 | 66 | 80 | 48 | 47 | 51 | 0.09 |
| 23 | 82 | 546 | 9.6 | 133 | 25.4 | 57 | 69 | 47 | 46 | 81 | 23 | 35 | 46 | 0.01 |
| 24 | 83 | 556 | 10.9 | 149 | 23.2 | 56 | 67 | 44 | 23 | 48 | 12 | 17 | 40 | 0.00 |
| 25 | 84 | 529 | 12.5 | 38 | 38.9 | 52 | 62 | 44 | 30 | 53 | 12 | 19 | 38 | 0.00 |
| 26 | 85 | 590 | 17.1 | 353 | 42.2 | 51 | 61 | 40 | 17 | 27 | 7 | 6 | 35 | 0.00 |
| 27 | 86 | 578 | 19.7 | 339 | 40.9 | 56 | 68 | 44 | 21 | 30 | 14 | 16 | 39 | 0.00 |
| 28 | 87 | 575 | 20.0 | 334 | 39.9 | 65 | 77 | 53 | 23 | 33 | 12 | 25 | 46 | 0.00 |

| | | | | | | | | | | | | | | |
|-----------|----|-----|------|-----|------|----|----|----|----|----|----|----|----|------|
| <u>29</u> | 88 | 542 | 16.2 | 325 | 30.6 | 68 | 78 | 55 | 17 | 28 | 10 | 20 | 46 | 0.00 |
| <u>30</u> | 89 | 556 | 5.8 | 294 | 21.2 | 67 | 82 | 52 | 18 | 30 | 8 | 20 | 45 | 0.00 |
| <u>31</u> | 90 | 448 | 5.7 | 281 | 22.3 | 67 | 83 | 51 | 19 | 33 | 8 | 21 | 46 | 0.00 |

MONTHLY STATISTICS

| | Total | Wind | | | Air Temperature | | | Humidity | | | Dew | Wet | Total |
|-------|------------|------|---------|------|-----------------|------|------|----------|------|------|-----------------|------|--------|
| | Solar Rad. | Ave | V. Dir. | Max | Mean | Max | Min | Mea n | Ma x | Mi n | Point | Bulb | Precip |
| | ly. | mph | Deg | mph | Deg. Fahrenheit | | | Percent | | | Deg. Fahrenheit | | inches |
| Total | 14210 | | | | | | | | | | | | 0.50 |
| Ave. | 458 | 10.4 | 241 | 27.0 | 54.8 | 67.1 | 43.1 | 33 | 54 | 17 | 22 | 41 | |
| Max. | 590 | 20.0 | | 42.2 | 68 | 83 | 55 | 67 | 94 | 48 | 47 | 51 | 0.31 |
| Min. | 92 | 3.7 | | 11.0 | 41 | 51 | 29 | 13 | 23 | 5 | -2 | 31 | 0.00 |

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$^{\circ} 1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW-hr/m}^2$

Station Summary

Beatty 11SSE US Ecology Nevada

Monthly Summary for

April, 2018

| Day of Month | Day of Year | Total Solar Rad. ly. | Wind | | Air Temperature | | | Humidity | | | Dew Point Deg. Fahrenheit | Wet Bulb Deg. Fahrenheit | Total Precip inches | |
|--------------------|-------------------|-------------------------------|------------|-------------------|--------------------|------|-----|----------|----------|---------|------------------------------------|-----------------------------------|---------------------------|---------|
| | | | Ave mph | V. Dir. Deg | Max mph | Mean | Max | Min | Mea n | Ma x | | | | Mi n |
| 1 | 91 | 587 | 8.7 | 239 | 23.0 | 71 | 85 | 58 | 14 | 25 | 9 | 19 | 47 | 0.00 |
| 2 | 92 | 382 | 7.1 | 267 | 33.6 | 66 | 80 | 51 | 20 | 33 | 10 | 23 | 46 | 0.00 |
| 3 | 93 | 613 | 9.5 | 258 | 27.9 | 64 | 78 | 52 | 12 | 21 | 7 | 9 | 42 | 0.00 |
| 4 | 94 | 536 | 5.1 | 260 | 15.8 | 66 | 82 | 49 | 16 | 24 | 9 | 17 | 44 | 0.00 |
| 5 | 95 | 487 | 4.5 | 249 | 15.1 | 71 | 84 | 58 | 18 | 27 | 11 | 25 | 48 | 0.00 |
| 6 | 96 | 524 | 7.7 | 139 | 21.4 | 73 | 85 | 61 | 22 | 43 | 15 | 32 | 51 | 0.00 |
| 7 | 97 | 450 | 12.6 | 66 | 34.3 | 72 | 84 | 62 | 36 | 59 | 5 | 39 | 54 | 0.00 |
| 8 | 98 | 638 | 11.8 | 307 | 30.1 | 67 | 83 | 50 | 9 | 18 | 3 | 4 | 42 | 0.00 |
| 9 | 99 | 614 | 11.6 | 300 | 28.7 | 68 | 83 | 56 | 11 | 18 | 7 | 11 | 44 | 0.00 |
| 10 | 100 | 548 | 7.5 | 189 | 25.8 | 72 | 89 | 53 | 13 | 22 | 6 | 16 | 46 | 0.00 |
| 11 | 101 | 600 | 13.3 | 160 | 40.8 | 76 | 89 | 62 | 16 | 29 | 6 | 24 | 50 | 0.00 |
| 12 | 102 | 643 | 27.1 | 337 | 50.5 | 57 | 67 | 49 | 14 | 25 | 6 | 6 | 38 | 0.00 |
| 13 | 103 | 637 | 16.0 | 331 | 36.6 | 57 | 70 | 45 | 18 | 30 | 9 | 11 | 39 | 0.00 |
| 14 | 104 | 650 | 5.2 | 184 | 17.7 | 64 | 79 | 43 | 13 | 27 | 6 | 10 | 42 | 0.00 |
| 15 | 105 | 479 | 10.1 | 170 | 25.3 | 66 | 81 | 52 | 14 | 24 | 8 | 15 | 44 | 0.00 |
| 16 | 106 | 655 | 20.4 | 190 | 48.9 | 60 | 71 | 41 | 24 | 94 | 8 | 19 | 42 | 0.01 |
| 17 | 107 | 666 | 13.6 | 338 | 38.4 | 53 | 65 | 43 | 24 | 45 | 9 | 15 | 38 | 0.00 |
| 18 | 108 | 569 | 10.1 | 174 | 28.1 | 58 | 73 | 38 | 16 | 32 | 7 | 9 | 39 | 0.00 |
| 19 | 109 | 414 | 20.3 | 345 | 47.2 | 55 | 60 | 46 | 32 | 67 | 19 | 24 | 41 | 0.00 |
| 20 | 110 | 665 | 20.1 | 324 | 46.9 | 65 | 78 | 53 | 24 | 44 | 7 | 24 | 46 | 0.00 |
| 21 | 111 | 675 | 8.7 | 290 | 29.3 | 71 | 86 | 56 | 13 | 24 | 6 | 16 | 46 | 0.00 |
| 22 | 112 | 653 | 4.8 | 257 | 20.8 | 73 | 89 | 52 | 11 | 20 | 6 | 13 | 46 | 0.00 |
| 23 | 113 | 672 | 4.9 | 224 | 17.7 | 75 | 91 | 57 | 13 | 21 | 6 | 19 | 48 | 0.00 |
| 24 | 114 | 667 | 4.7 | 149 | 17.8 | 76 | 90 | 59 | 11 | 18 | 5 | 17 | 48 | 0.00 |
| 25 | 115 | | | | 20.7 | | 93 | 57 | | 18 | 6 | | | |
| 26 | 116 | | | | 24.4 | | 95 | 62 | | 18 | 6 | | | |
| 27 | 117 | 685 | 13.2 | 153 | 31.5 | 77 | 92 | 62 | 13 | 27 | 3 | 18 | 50 | 0.00 |
| 28 | 118 | 689 | 9.0 | 151 | 22.5 | 70 | 83 | 49 | 13 | 22 | 5 | 16 | 46 | 0.00 |

| | | | | | | | | | | | | | | |
|-----------|-----|-----|------|-----|------|----|----|----|----|----|----|----|----|------|
| <u>29</u> | 119 | 683 | 12.8 | 217 | 55.2 | 67 | 80 | 51 | 18 | 31 | 8 | 20 | 45 | 0.00 |
| <u>30</u> | 120 | 501 | 12.1 | 285 | 32.9 | 61 | 71 | 51 | 25 | 41 | 13 | 23 | 43 | 0.00 |

MONTHLY STATISTICS

| | Total Solar Rad. ly. | Ave . mph | Wind | | Air Temperature | | | Humidity | | | Dew Point Deg. Fahrenheit | Wet Bulb Deg. Fahrenheit | Total Precip . inches |
|-------|-------------------------------|-----------------|-------------------|-----------------|--------------------|------|------|----------|---------|---------|------------------------------------|-----------------------------------|--------------------------------|
| | | | V. Dir. Deg | Max . mph | Mean | Max | Min | Mea n | Ma x | Mi n | | | |
| Total | 16581 | | | | | | | | | | | | 0.01 |
| Ave. | 592 | 11.2 | 261 | 30.3 | 66.8 | 81.3 | 52.6 | 17 | 31 | 8 | 18 | 45 | |
| Max. | 689 | 27.1 | | 55.2 | 77 | 95 | 62 | 36 | 94 | 19 | 39 | 54 | 0.01 |
| Min. | 382 | 4.5 | | 15.1 | 53 | 60 | 38 | 9 | 18 | 3 | 4 | 38 | 0.00 |

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

$$^{\circ} 1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW-hr/m}^2$$

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MONTHLY STATISTICS

| | Total Solar Rad. ly. | Ave . mph | Wind | | Air Temperature | | | Humidity | | | Dew | Wet | Total |
|-------|-------------------------------|-----------------|-------------------|-----------------|--------------------|------|------|----------|---------|---------|--------------------|------|-------------|
| | | | V. Dir. Deg | Max . mph | Mean | Max | Min | Mea n | Ma x | Mi n | Point | Bulb | Precip . |
| | | | | | Deg. Fahrenheit | | | Percent | | | Deg. Fahrenheit | | inches |
| Total | 10977 | | | | | | | | | | | | 0.11 |
| Ave. | 646 | 9.2 | 244 | 30.5 | 72.5 | 85.4 | 57.6 | 22 | 39 | 11 | 25 | 49 | |
| Max. | 735 | 16.4 | | 53.5 | 85 | 101 | 73 | 61 | 93 | 34 | 42 | 53 | 0.06 |
| Min. | 319 | 5.2 | | 17.1 | 56 | 67 | 46 | 7 | 11 | 2 | 10 | 46 | 0.00 |

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° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²