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Wastewater Evaluation Report

Proposed Grandwood Subdivision

NE of Higby Road and Fairplay Drive

El Paso County, Colorado

VIVID Project No.: D18-2-175

PCD File No. SP195

File# SF-20-026



Only the client or it's designated representatives may use this document and only for the specific project for which this report was prepared. January 19, 2019 Revision 1- April 1, 2019 Revision 2- September 11, 2019 Revision 3- February 18, 2020 Revision 4- April 16, 2020

Report prepared for:

Bill Herebic Grandwood Enterprises, LLC 270 Lodgepole Way Monument, Colorado 80132 Herebic5@msn.com

WASTEWATER EVALUATION REPORT Proposed Grandwood Subdivision NE of Higby Road and Fairplay Drive El Paso County, Colorado VIVID Project No. D18-2-175

Prepared by:

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1.0 INTRODUCTION

1.1 General

This report presents the results of a wastewater evaluation report performed for the proposed Grandwood Subdivision to be constructed northeast of Higby Road and Fairplay Drive in El Paso County, Colorado. An attached Vicinity Map (Figure 1) shows the general location of the project. Our evaluation was performed for Grandwood Enterprises, LLC, and was authorized by Mr. Bill Herebic. This report is a 3rd revision of the original report to incorporate information related to: the proximity of water wells, lakes streams, irrigation ditches, and other water sources in the area; and the availability and feasibility of inclusion of the development into a central sewage system (special district). This information is presented in Section 3.5 of this report.

1.2 Project Description

The proposed project includes the development of a 151-acre parcel into a residential subdivision. 48 lots are planned, that will be approximately 2.5 acres in size. The property has no current improvements and is in a generally native condition. The development will include construction of access roadways and utilities. Residential lots will require individual water well and septic systems. A preliminary site layout is shown on Figure 2, attached to this report.

1.3 Purpose and Scope

The purpose of this evaluation was to evaluate the site for general feasibility of the use of individual Onsite Wastewater Treatment Systems (OWTS) – a.k.a. septic systems. This report is part of the submittal of the Preliminary Development Plan for this proposed subdivision to El Paso County.

VIVID's scope of services included:

- A visual reconnaissance to observe surface and geologic conditions at the project site and locating the exploratory borings and test pit sites;
- Notification of the Utility Notification Center of Colorado (UNCC)/Colorado 811 to identify underground utility lines at the boring locations prior to our drilling;
- The drilling of seven exploratory borings (including percolation testing) and excavation of three test pits for tactile evaluation of the soils. This scope was previously discussed and approved by El Paso County Board of Health personnel who perform development reviews for the County for proposed OWTS facilities. These exploration were performed on 20 percent of the proposed lots at currently accessible locations across the proposed development area;
- Laboratory testing of selected samples obtained during the field exploration to evaluate relevant physical, geologic, and engineering properties of the soil; and
- Preparation of this report, which includes a description of the proposed project, a description of the surface and subsurface site conditions found during our investigation, and an evaluation of the feasibility of the use of OWTS for this development.



2.0 FIELD EXPLORATION AND LABORATORY TESTING

2.1 Field Exploration

A field exploration performed on December 20, 2018 included the drilling of seven exploratory borings (including percolation testing), and excavation of three test pits for tactile evaluation of the soils at the locations presented on Figure 2 – Exploration Location Plan. This exploration and some of the basic information are presented in Table 1, below.

| Boring Designation | Approximate Boring Depth [feet, below ground surface] | Approximate Depth to Groundwater [feet, below ground surface] | Approximate Depth to Weathered Bedrock [feet, below ground surface] | Approximate Depth to Competent Bedrock [feet, below ground surface] |
|-----------------------|--|---|---|---|
| B-1 | 25.0 | 23.0 | None Encountered | None Encountered |
| B-2 | 14.5 | None Encountered | 4.0 | 12.0 |
| B-3 | 25.0 | 19.0 | None Encountered | None Encountered |
| B-4 | 20.0 | 17.0 | - | 12.0 |
| B-5 | 14.5 | None Encountered | 8.0 | None Encountered |
| B-6 | 25.0 | 19.0 | 25.0 | None Encountered |
| B-7 | 20.0 | 14.0 | 14.0 | None Encountered |
| TP-1 | 10.0 | None Encountered | None Encountered | None Encountered |
| TP-2 | 10.0 | None Encountered | None Encountered | None Encountered |
| TP-3 | 10.0 | None Encountered | None Encountered | None Encountered |

| Table 1 |
|-----------------------------------|
| Summary of Subsurface Exploration |

Borings were performed with a truck-mounted CME-45 drill rig equipped with 4-inch outside diameter, continuous-flight, solid-stem auger. Samples were taken with a 2.5-inch O.D./2.0-inch I.D., California-type sampler, standard penetration (SPT) sampler, and by bulk methods. Penetration tests were obtained at the various sample depths as well.

Test pits were performed with a rubber-tire backhoe. Tactile observation/evaluation of the soils exposed was performed during excavation. Bulk samples of the soils were obtained for laboratory testing purposes.

Appendix A to this report includes logs of the borings and test pits describing the subsurface conditions. The lines defining boundaries between soil and rock types on the logs are based upon drill behavior and interpolation between samples and are therefore approximate. Transition between soil and rock types may be abrupt or may be gradual.



2.2 Laboratory Testing

Laboratory tests were performed on selected soil samples to estimate their relative engineering properties. Tests were performed in general accordance with the following methods of ASTM or other recognized standards-setting bodies, and local practice:

- Description and Identification of Soils (Visual-Manual Procedure)
- Classification of Soils for Engineering Purposes
- Moisture Content
- Sieve Analysis of Fine and Coarse Aggregates
- Liquid Limit, Plastic Limit, and Plasticity Index
- Swell/Settlement

Results of the laboratory tests are included in Appendix B of this report. Selected test results are also shown on the boring logs in Appendix A.

2.3 General Geology

2.3.1 Site Description

The site is 151 acres and is currently covered with native grasses, trees, and shrubs. The parcel is a generally mild south and west sloping parcel with two shallow alluvial valleys separated by sandstone topographic highs. The site is bounded on the north, east and west by existing residential subdivisions. Higby Road borders the south.

2.3.2 Geologic Reconnaissance

A visual geologic reconnaissance of the site was performed by Mr. Jim Frohbieter, Professional Geologist, with J&K Geological Services. This reconnaissance was supported by the field drilling and test pit explorations, as well as geologic mapping and information from the following sources:

- CGS Geologic Map of the Monument Quadrangle, El Paso County, Colorado by Jon P. Thorson and Richard F. Madole, 2003
- Soil Survey of El Paso County Area, Colorado Soil Conservation Service, USDA, 1979
- El Paso County, Colorado: Potential Geologic Hazards and Surficial Deposits, Environmental and Engineering Maps and Tables for Land Use (Colorado Springs Quadrangle 1961), Charles S. Robinson and Associates, Inc. Cochran, D.M. (1977)
- Review of Available Geologic Hazard Studies in the surrounding area

Geologic maps are presented as Figures 3a-Regional Geology Map and Figure 3b-Site Specific Geology Map, attached to this report. An NRCS Soil Survey Map and associated Soil Descriptions are presented as Figures 4a, and 4b. A USGS Topographic Map is attached as Figure 5.



3.0 ON-SITE WASTEWATER TREATMENT

3.1 Evaluation

The site was evaluated for use of On-Site Wastewater Treatment Systems (OWTS); a.k.a. Septic Systems. For the purpose of submitting the Preliminary Development Plan, and after review of requirements listed in the El Paso County Land Development Code, the El Paso County Public Health Regulations, and written and verbal communication with both departments, a combination of profile borings/percolation testing (7 total), and tactile test pits (3 total) were performed. These explorations were performed at currently accessible locations across the development, and are shown on Figure 2. Logs of the borings and test pits are presented in Appendix A. Laboratory test results are presented in Appendix B, and select lab data is presented on the logs in Appendix A. Percolation test results and Long Term Acceptance Rate (LTAR) values are presented at the bottom of the logs in Appendix A as well. Figure 7 presents a Septic Suitability Map showing the possible configurations of septic fields, residence, and water well locations for the evaluated lots.

3.2 NRCS Soil Survey Mapping

Mapping of the NRCS Soil Survey on this site is presented on Figure 4a with descriptions of the soil types presented on Figure 4b. The NRCS soil descriptions generally agree with the soils encountered in our investigation and the results of our laboratory soil testing.

3.3 Results of Evaluations

Soils encountered at the locations evaluated generally included Silty to Clayey SAND, to "cleaner" Well to Poorly-Graded SAND. These coincide with Sand, Loamy Sand, Sandy Loam, and Loam (Soil Types 1 and 2) per USDA Soil Type categories. These soils are generally considered to have favorable percolation rates for conventional septic system design and construction.

Percolation rates at our exploration locations ranged from approximately 5 to 23 minutes/inch. LTAR values based on tactile evaluations, and laboratory soil testing were estimated to range from 0.80 to 0.60 gallons/square foot/day.

Dawson Formation weathered to relatively un-weathered bedrock (mainly sandstone with minor clayey or claystone layers) was encountered in five of the ten explorations at approximate depths of 4, 8, 12, 14, and 24 feet below the existing ground surface. Groundwater was encountered in five of the ten explorations at approximate depths ranging from 14 to 23 feet below the existing ground surface. Table 1 presented in this report shows depth to bedrock and groundwater for each exploration in tabular format. This information is also presented on the individual exploration logs in Appendix A.

3.4 Conclusions

The locations evaluated as part of this study generally found soils and percolation rates that are favorable for conventional septic system construction. Geologic mapping as presented on Figures 3a and 3b indicate that shallower bedrock of the Dawson Formation (see areas of Tkd4 on Figure 3a) will be encountered at various locations that were outside accessible limits of this evaluation. These areas are anticipated to have higher occurrences of shallow bedrock and lower percolation rates that would require engineered systems.

Add note on plat document specifying that certain lots will require engineered 4 [septic systems

D18-2-175



3.5 Other Considerations

Existing Water Wells:

Two water wells are located within the eastern portion of the site adjacent the Jackson Creek drainage feature. The wells are 210 to 415 feet deep and uses are Domestic and Domestic Stock. A well field (no structure) is mapped adjacent the southern edge of the property. The residential communities adjacent and to the north, east, and south are on individual wells for domestic & household only use and septic systems.

Existing Lakes, Streams, Irrigation Ditches, etc.:

The nearest lakes (Lake Woodmoor and Monument Lake) are located 2 to 3 miles from the site at up or crossgradient locations. Jackson Creek (1st order drainage) crosses the east portion of the site which is a perennial stream and flows to the south and west of the site. Several ponds associated with the Jackson Creek drainage are located on site and downstream that have historically been associated with livestock uses.

Availability of Central Sewage System:

The site is not within the boundaries of a water/sanitation district. Woodmoor Water & Sanitation District boundary is located adjacent the east and northeast site boundary and would be the closest connection if they allowed inclusion, which is unclear based on discussions to date. The estimated cost to tie into Woodmoor's sewage system is significant and includes the main items presented in the table below. In summary, connecting to Woodmoor's wastewater system results in an estimated cost on the order of \$2.7 M versus \$0.72 M for individual OWTS for full build out of the subdivision.

| ITEM | AMOUNT | UNIT COST | TOTAL COST |
|-------------------------------|-------------------------|------------------------------|-------------|
| Lift Station | 2 | \$400,000 | \$800,000 |
| 8" Pipeline | 14,000 Linear Feet (LF) | \$64.00 per LF ¹⁾ | \$896,000 |
| Manholes | 30 (1 per 400 LF) | \$4,386 ¹⁾ | \$131,580 |
| Installation | 14 (1,000 LF segments) | \$1,402 ¹⁾ | \$19,628 |
| Design/Drawings ²⁾ | 1 | \$25,000 | \$25,000 |
| Inclusion Fee 3) | 1 | \$400,000 | \$400,000 |
| Tap fee | 48 | \$9,228 | \$442,944 |
| TOTAL COST ESTIMATE | | | \$2,715,152 |

Notes:

1) Unit cost from 2019 El Paso County Financial Assurance charts

2) Design/Drawings include all system design, construction drawings, permits and financial assurances

3) Inclusion fee can vary widely

Other considerations:

- Based on conversations with Woodmoor Water and Sanitation it is unlikely that they will service the site for wastewater only. If they require water service as well the above cost impact to the project will increase by at least 3 times.
- The return flows from the planned septic systems meets the State's augmentation requirements for pumping from the Dawson aquifer. Without those return flows Grandwood would have to purchase non-tributary augmentation water from another source. At \$3,000 per acre foot this could be as much as \$72,000 annually.

Based on our evaluation, inclusion into a special district would be cost prohibitive for the development.



4.0 LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of VIVID's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. VIVID makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by the Client and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.



Not to Scale. Base image obtained from www.mapquest.com, 2019



| | Project No: D18-2-175 Date: 1/15/19 | VICINITY MAP | Figure |
|--|--|--------------------------|--------|
| | Drawn by: WJB | Grandwood Subdivision | 1 |
| | Reviewed by:BTM | El Paso County, Colorado | |



Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019.



| Figure |
|--------|
| 2 |



Not to Scale. Base image from https://ngmdb.usgs.gov/Prodesc/proddesc_76327.htm (Geologic Map of the Monument Quadrangle, El Paso County, Colorado, 2003)

| VIVID Engi 1053 Elkto | VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, Colorado 80907 | Project No: D18-2-175 Date: 1/15/19 | REGIONAL GEOLOGY MAP |
|-----------------------------|--|--|--------------------------|
| Colorado | | Drawn by: WJB | Grandwood Subdivision |
| Engineering Group 719.896.4 | 356 | Reviewed by: BTM | El Paso County, Colorado |
| | | | |

Figure **3a**



Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019. Site-specific Geology Mapping by Jim Frohbieter, Professional Geologist

| | VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, Colorado 80907 719.896.4356 | Project No: D18-2-175 Date: 1/15/19 rev 2: 4-16-20 | SITE-SPECIFIC GEOLOGY MAP |
|--|--|---|---------------------------|
| | | Drawn by: WJB | Grandwood Subdivision |
| | | Reviewed by: BTM | El Paso County, Colorado |

| Figure |
|--------|
| 3b |
| |



Not to Scale. Base image from https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

| | VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, Colorado 80907 719.896.4356 | Project No: D18-2-175 Date: 1/15/19 | NRCS SOIL SURVEY MAP | Figure |
|--|--|--|--------------------------|--------|
| | | Drawn by: WJB | Grandwood Subdivision | 4a |
| | | Reviewed by: BTM | El Paso County, Colorado | |

El Paso County Area, Colorado

1-Alamosa loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3670 Elevation: 7,200 to 7,700 feet Farmland classification: Prime farmland if irrigated and reclaimed of excess salts and sodium

Map Unit Composition

Alamosa and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Alamosa

Setting

Landform: Flood plains, fans Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Typical profile

A - 0 to 6 inches: loam Bt - 6 to 14 inches: clay loam Btk - 14 to 33 inches: clay loam Cq1 - 33 to 53 inches: sandy clay loam Cq2 - 53 to 60 inches: sandy loam

Properties and qualities

Slope: 1 to 3 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Poorly drained Runoff class: Very high Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr) Depth to water table: About 12 to 18 inches Frequency of flooding: Frequent Frequency of ponding: None Calcium carbonate, maximum in profile: 5 percent Salinity, maximum in profile: Very slightly saline to strongly saline (2.0 to 16.0 mmhos/cm) Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 5w Hydrologic Soil Group: D Ecological site: Mountain Meadow (R048AY241CO) Hydric soil rating: Yes

Minor Components

Other soils

Percent of map unit: Hydric soil rating: No

El Paso County Area, Colorado

41—Kettle gravelly loamy sand, 8 to 40 percent slopes Map Unit Setting

National map unit symbol: 368h Elevation: 7,000 to 7,700 feet Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 85 percent

Estimates are based on observations, descriptions, and transec mapunit

Description of Kettle

Setting

Landform: Hills Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy alluvium derived from arkose

Typical profile

E - 0 to 16 inches: gravelly loamy sand Bt - 16 to 40 inches: gravelly sandy loam C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 8 to 40 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat excessively drained Runoff class: Medium Capacity of the most limiting layer to transmit water (Ksat): (2.00 to 6.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water storage in profile: Low (about 3.4 inches) Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B

Minor Components

Other soils

Percent of map unit:

Percent of map unit: Landform: Depressions Hydric soil rating: Yes

El Paso County Area, Colorado

71—Pring coarse sandy loam, 3 to 8 percent slopes Map Unit Setting

National map unit symbol: 369k Elevation: 6,800 to 7,600 feet Farmland classification: Not prime farmland

Map Unit Composition

Pring and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pring

Setting

Landform: Hills Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Arkosic alluvium derived from sedimentary rock

Typical profile

A - 0 to 14 inches: coarse sandy loam C - 14 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 8 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Runoff class: Low Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water storage in profile: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e Hydrologic Soil Group: B Ecological site: Loamy Park (R048AY222CO) Hydric soil rating: No

Minor Components

Pleasant

Percent of map unit: Landform: Depressions Hydric soil rating: Yes

Other soils

Percent of map unit: Hydric soil rating: No

Not to Scale. Base image from https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

| VIVID En 1053 Elk Colorado 719.896. | VIVID Engineering Group, Inc. 1053 Elkton Drive | Project No: D18-2-175 Date: 1/15/19 | NRCS SOIL SURVEY MAP (Soil Description |
|--|--|--|--|
| | Colorado Springs, Colorado 80907 | Drawn by: WJB | Grandwood Subdivision |
| | 719.896.4356 | Reviewed by: BTM | El Paso County, Colorado |

Hydric soil rating: No

Hydric soil rating: No

Pleasant

El Paso County Area, Colorado

93-Tomah-Crowfoot complex, 8 to 15 percent slopes Map Unit Setting

National map unit symbol: 36bb Elevation: 7,300 to 7,600 feet Farmland classification: Not prime farmland

Map Unit Composition

Tomah and similar soils: 50 percent Crowfoot and similar soils: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tomah

Setting

Landform: Alluvial fans, hills Landform position (three-dimensional): Side slope, crest Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from arkose and/or residuum weathered from arkose

Typical profile

A - 0 to 10 inches: loamy sand

- E 10 to 22 inches: coarse sand
- C 48 to 60 inches: coarse sand

Properties and qualities

Slope: 8 to 15 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Runoff class: Medium Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water storage in profile: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6e Hydrologic Soil Group: B Ecological site: Sandy Divide (R049BY216CO) Hydric soil rating: No

Description of Crowfoot

Settina

Landform: Hills, alluvial fans Landform position (three-dimensional): Side slope, crest Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Typical profile

A - 0 to 12 inches: loamy sand E - 12 to 23 inches: sand Bt - 23 to 36 inches: sandy clay loam C - 36 to 60 inches: coarse sand

Properties and gualities

Slope: 8 to 15 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Runoff class: Medium Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water storage in profile: Low (about 4.7 inches)

ons)

Figure

4b



Not to Scale. Base image obtained from USGS 7.5 Minute Quadrangle, 1961



| Project No: D18-2-175 | TOPOGRAPHIC MAP | Figure |
|-----------------------|--------------------------|--------|
| Date: 1/15/19 | | |
| Drawn by: WJB | Grandwood Subdivision | 5 |
| Reviewed by:BTM | El Paso County, Colorado | |

| | Woodmoor | Purple Areas Indicate Flood Hazard | |
|---|--|--|-------------|
| Monume | nt App Pro Loc | perty ation | |
| 08041(| 278G TOWN OF MONUMENT | 08041C0279G | |
| | | | |
| Not to Scale. Base image obtained frr https://dsat.services.femadata.com/arr iskMAP_ElPasoCourty_Colorado/Mar | Dm cgis/rest/services/FEMA_R8/R oServer/leggend 2019 | B041C00 Gleneagle Site has no mapped flood hazards | ¶ ∧ N |
| | Project No: D18-2-175 Date: 1/15/19 | FLOOD HAZARD MAP | Figure |
| | Drawn by: WJB Reviewed by:BTM | Grandwood Subdivision El Paso County, Colorado | 0 |



Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019.

| VIVID Engineering Group, Inc. | Project No: D18-2-175 Date: 1/15/19 rev 2: 4-16-20 | SEPTIC SUITABILITY MAP | | | | |
|----------------------------------|---|--------------------------|--|--|--|--|
| Colorado Springs, Colorado 80907 | Drawn by: WJB | Grandwood Subdivision | | | | |
| ngineering Group 719.896.4356 | Reviewed by: BTM | El Paso County, Colorado | | | | |

| Figure |
|--------|
| 7 |

Appendix A

Logs of Explorations









Note:

Average Percolation Rate = 5 min./in. LTAR = 0.80 gal./s.f./day









GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/17/19 15:03 - F3/VIVID PROJECTS/D18-2-175 GRANDWOOD SUBDIVISION(6 - DRAFTING/D18-2-175.GPJ



| Engl | | VIVID Engineerir 1053 Elkton Driv Colorado Springs Telephone: 719- | ıg Group e 3, CO 8(-896-43! | p, Inc. 0907 556 | TEST PIT NUMBER TP-3 PAGE 1 OF 1 | | | | | |
|--------------------------|-----------------------------------|---|---------------------------------------|--|---|--|--|--|--|--|
| CLIEN | JT Hereb | Fax: /19-896-4; ic Homes | 357 | | PROJECT NAME Grandwood Subdivision | | | | | |
| PROJECT NUMBER D18-2-175 | | | | | PROJECT I OCATION Highy Road Monument Colorado | | | | | |
| DATE | STARTE | D 12/20/18 | c | COMPLETED 12/20/18 | GROUND ELEVATION TEST PIT SIZE 60 X 120 inches | | | | | |
| FXCA | | ONTRACTOR B | ush Exc | ravating | GROUND WATER I EVELS: | | | | | |
| EXCA | | METHOD Rubber | Tire Ba | ickhoe | | | | | | |
| LOGC | ED BY | Frohbieter | <u> </u> | CHECKED BY W. Barreire | AT END OF EXCAVATION | | | | | |
| NOTE | is | | | ··· ···· ····························· | AFTER EXCAVATION | | | | | |
| | | | | | | | | | | |
| o DEPTH (ft) | SAMPLE TYPE NUMBER | TESTS | GRAPHIC LOG | | MATERIAL DESCRIPTION | | | | | |
| | | | <u></u> | 8"-12" Topsoil - SAND, s | slightly clayey with organics, dark brown, dry, loose | | | | | |
| | | | 1/ · <u>× · /</u> | | the start that have a day to all shells, maint loops to madium dopped fing to | | | | | |
| | | | | coarse-grained. USDA S | Soil Type: 1, Structure Shape: N/A, Structure Grade: 0 | | | | | |
| | GB | | | 2.0 Poorly Graded SAND wit coarse-grained. USDA So 4.0 Poorly Graded SAND wit USDA Soil Type: 1, Stru | th silt and clay, light brown, dry to slightly moist, loose to medium dense, fine to soil Type: 1, Structure Shape: N/A, Structure Grade: 0 th clay, tan, dry to slightly moist, loose to medium dense, fine to coarse-grained. cture Shape: N/A, Structure Grade: 0 | | | | | |
| | - ∰ GB | MC = 4.5% LL = NP PL = NP Fines = 11.6% | | 10.0 | | | | | | |
| | <u> </u> | | <u> </u> | | Bottom of test pit at 10.0 feet. | | | | | |
| | <u>Note:</u> Average LTAR = | e Percolation Ra : 0.80 gal./s.f./da | ate = N ay | I/A | | | | | | |

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/17/19 15:03 - F:\VIVID PROJECTS\D 18-2-175_GRANDWOOD SUBDIVISION(6 - DRAFTINGID18-2-175.GPJ

KEY TO SYMBOLS VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, CO 80907 IVID Telephone: 719-896-4356 Fax: 719-896-4357 CLIENT Herebic Homes PROJECT NAME Grandwood Subdivision PROJECT NUMBER _ D18-2-175 PROJECT LOCATION Higby Road, Monument, Colorado LITHOLOGIC SYMBOLS SAMPLER SYMBOLS (Unified Soil Classification System) kM. Grab Sample CLAYSTONE 2" I.D. Modified California Sampler (MC) SANDSTONE SC: USCS Clayey Sand Standard Penetration Test (SPT) SC-SM: USCS Clayey Sand SM: USCS Silty Sand SP-SC: USCS Poorly-graded Sand with Clay SP-SM: USCS Poorly-graded Sand with Silt SW-SM: USCS Well-graded Sand with Silt TOPSOIL WEATHERED SANDSTONE **ABBREVIATIONS** LL - LIQUID LIMIT (%) Water Level at Time ∇ ΡI - PLASTIC INDEX (%) Drilling, or as Shown MC - MOISTURE CONTENT (%) DD - DRY DENSITY (PCF) NP - NON PLASTIC FINES- PERCENT PASSING NO. 200 SIEVE

KEY TO SYMBOLS - GINT STD US LAB.GDT - 1/17/19 15:36 - F:\VIVID PROJECTS\D18-2-175_GRANDWOOD SUBDIVISION(6 - DRAFTING\D18-2-175.GPJ

Appendix B

Laboratory Test Results

SUMMARY OF LABORATORY RESULTS

PAGE 1 OF 1



CLIENT Herebic Homes

VIVID Engineering Group, Inc. 1053 Elkton Drive Colorado Springs, CO 80907 Telephone: 719-896-4356 Fax: 719-896-4357

PROJECT NAME Grandwood Subdivision

| PROJECT NUMBER D18-2-175 | | | | PROJECT LOCATION Higby Road, Monument, Colorado | | | | | | | |
|--------------------------|-------|-----------------|------------------|---|-------------------------|-----------------|---------------------|-------------------------|-------------------------|--|--|
| Borehole | Depth | Liquid Limit | Plastic Limit | Plasticity Index | Maximum Size (mm) | %<#200 Sieve | Class- ification | Water Content (%) | Dry Density (pcf) | | |
| B-1 | 9.0 | NP | NP | NP | 19 | 14 | SM | 8.2 | | | |
| B-1 | 24.0 | NP | NP | NP | | | | 17.3 | | | |
| B-2 | 9.0 | 43 | 26 | 17 | 9.5 | 22 | SC | 10.6 | | | |
| B-3 | 4.0 | NP | NP | NP | 19 | 11 | SW-SM | 2.1 | | | |
| B-3 | 14.0 | NP | NP | NP | 25 | 8 | SW-SM | 4.4 | | | |
| B-4 | 2.0 | NP | NP | NP | 12.5 | 19 | SM | 2.8 | | | |
| B-4 | 14.0 | NP | NP | NP | 9.5 | 15 | SM | 11.7 | | | |
| B-6 | 9.0 | 25 | 19 | 6 | 19 | 21 | SC-SM | 10.1 | | | |
| B-7 | 4.0 | NP | NP | NP | 12.5 | 30 | SM | 6.4 | | | |
| B-7 | 14.0 | 33 | 24 | 9 | 9.5 | 54 | ML | 22.1 | | | |
| TP-1 | 2.0 | NP | NP | NP | 25 | 17 | SM | 2.9 | | | |
| TP-2 | 3.0 | NP | NP | NP | 12.5 | 9 | SW-SM | 5.7 | | | |
| TP-3 | 4.0 | NP | NP | NP | 25 | 12 | SP-SM | 4.5 | | | |





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OWTS Report_v1.pdf Markup Summary

Arrow (14) Subject: Arrow Page Label: 17 Author: wbarreire Date: 1/18/2019 10:01:16 AM Status: Color: Layer: Space: Subject: Arrow Page Label: 10 Author: Brysen Mustain Date: 1/18/2019 10:05:26 AM Status: Color: Layer: Space: Subject: Arrow Page Label: 12 Author: wbarreire Date: 1/18/2019 10:06:22 AM Status: Color: Layer: Space: _____ Subject: Arrow Page Label: 14 Author: wbarreire Date: 1/18/2019 10:06:22 AM Status: Color: Layer: Space: _____ Subject: Arrow Page Label: 16 Author: Brysen Mustain Date: 1/18/2019 10:09:09 AM Status: Color: Layer: Space: Subject: Arrow Page Label: 17 Author: Brysen Mustain Date: 1/18/2019 10:09:21 AM Status: Color: Layer: Space:
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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:56:15 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:57:05 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:57:09 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:58:06 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:58:09 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:58:54 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 4:58:58 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:00:35 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:00:37 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:00:39 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:01:26 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:01:27 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:01:53 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:01:55 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:02:07 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:02:09 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:03:13 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:03:27 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:03:33 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:03:48 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:03:49 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:04:16 PM Status: Color: Layer: Space: Subject: Rectangle
Page Label: 18
Author: wbarreire
Date: 2/13/2020 5:04:21 PM
Status:
Color:
Layer:
Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:04:40 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:04:42 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:04:52 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:05:00 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:05:48 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:05:50 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:06:50 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:06:52 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:07:18 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 2/13/2020 5:07:20 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:42:46 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:42:50 PM Status: Color: Layer: Space: -----Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:42:53 PM Status: Color: Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:43:34 PM Status: Color: 📕 Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:43:36 PM Status: Color: 📕 Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:43:44 PM Status: Color: Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:43:45 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:44:06 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:44:07 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:44:21 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:44:26 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:44:27 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:45:03 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:45:13 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:45:27 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:45:48 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:45:57 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:46:02 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:46:17 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:46:41 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:46:55 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:47:14 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:47:26 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:47:28 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:47:41 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:47:50 PM Status: Color: Layer: Space: _____ Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:48:02 PM Status: Color: Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:48:29 PM Status: Color: 📕 Layer: Space: -----Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:48:31 PM Status: Color: 📕 Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:50:48 PM Status: Color: Layer: Space: Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:51:01 PM Status: Color: Layer:

Space:
Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:51:05 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:51:39 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:51:57 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:51:59 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:52:18 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:52:21 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:53:43 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:53:47 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:53:50 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:53:58 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:14 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:17 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:39 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:42 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:57 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:54:58 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:11 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:14 PM Status: Color: Layer: Space:

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Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:22 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:26 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:38 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:40 PM Status: Color: Layer: Space:

Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:48 PM Status: Color: Layer: Space:



Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:55:49 PM Status: Color: Layer: Space:

| | Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:59:32 PM Status: Color: Layer: Space: |
|---|---|
| | Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 6:59:34 PM Status: Color: Layer: Space: |
| | Subject: Rectangle Page Label: 18 Author: wbarreire Date: 4/16/2020 7:01:11 PM Status: Color: Layer: Space: |
| | Subject: Rectangle Page Label: 11 Author: wbarreire Date: 4/16/2020 7:04:56 PM Status: Color: Layer: Space: |
| (B), intersection in the section of | Subject: Rectangle Page Label: 13 Author: wbarreire Date: 4/16/2020 7:29:53 PM - Status: Color: Layer: Space: |

Text Box (109)



Subject: Text Box Page Label: 10 Author: Brysen Mustain Date: 1/15/2019 12:17:26 PM Status: Color: Layer: Space:

Not to Scale. Base image obtained from www.mapquest.com, 2019

| LEGEND | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 5:54:01 PM Status: Color: Layer: | LEGEND |
|--------|--|--------|
| LEGEND | Space: Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/15/2019 5:54:01 PM Statue: | LEGEND |
| | Color: ■ Layer: Space: Subject: Text Box | |
| TP-1 | Page Label: 11 Author: wbarreire Date: 1/15/2019 6:07:08 PM Status: Color: Layer: Space: | TP-1 |
| TP-2 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:07:32 PM Status: Color: Layer: Space: | TP-2 |
| TP-3 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:07:45 PM Status: Color: Color: Color: Space: | TP-3 |
| B-3 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:29 PM Status: Color: Layer: Space: | В-3 |

| B-2 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:32 PM Status: | B-2 |
|-----|--|-----|
| | Color: Layer: Space: Subject: Text Box | B-1 |
| B-1 | Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:35 PM Status: Color: Layer: Space: | |
| B-5 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:40 PM Status: Color: Layer: Space: | B-5 |
| B-6 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:43 PM Status: Color: Layer: Space: | B-6 |
| B-4 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:46 PM Status: Color: Layer: Space: | В-4 |
| B-7 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:17:48 PM Status: Color: Layer: Space: | B-7 |

| GQ-6 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:19:27 PM Status: Color: ■ Layer: Space: | GQ-6 |
|------|---|------|
| GQ-7 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:20:05 PM Status: Color: Layer: Space: | GQ-7 |
| GQ-8 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:20:30 PM Status: Color: Layer: Space: | GQ-8 |
| GQ-1 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:21:07 PM Status: Color: Layer: Space: | GQ-1 |
| GQ-2 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:21:58 PM Status: Color: ■ Layer: Space: | GQ-2 |
| GQ-3 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:22:38 PM Status: Color: ■ Layer: Space: | GQ-3 |

| GQ-4 | Subject: Text Box Page Label: 11 Author: wbarreire | GQ-4 |
|-------------------|---|-----------|
| | Date: 1/15/2019 6:23:01 PM Status: Color: ■ Layer: | |
| | Space: | |
| GQ-5 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:23:31 PM Status: Color: ■ Layer: Space: | GQ-5 |
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| ect No: D18-2-175 | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:29:55 PM | D18-2-175 |
| ın by: | Status: Color: ■ Layer: Space: | |
| ct No: D18-2-175 | Subject: Text Box Page Label: 18 Author: wbarreire | D18-2-175 |
| rn by: | Color: ■ Layer: Space: | |
| | Subiect: Text Box | |
| y: WJB | Page Label: 11 Author: wbarreire Date: 1/15/2019 6:30:11 PM | WJB |
| | Status: Color: ■ Layer: Space: | |
| | Subject: Text Box Page Label: 18 | WJB |
| y: WJB | Author: wbarreire ■ Date: 1/15/2019 6:30:11 PM Status: Color: ■ Layer: | |
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| by: ed by: BTM | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:30:19 PM Status: Color: ■ Layer: Space: | ВТМ |
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| by: ed by: BTM | Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/15/2019 6:30:19 PM Status: Color: ■ Layer: Space: | ВТМ |
| | Subject: Text Box Page Label: 11 Author: Brysen Mustain Date: 1/15/2019 6:32:46 PM Status: Color: ■ Layer: Space: | Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019. |
| er en lang angener en en en er | Subject: Text Box Page Label: 18 Author: Brysen Mustain Date: 1/15/2019 6:32:46 PM Status: Color: ■ Layer: Space: | Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019. |
| EXPLORATION LOCATION PLAN | Subject: Text Box Page Label: 11 Author: wbarreire Date: 1/15/2019 6:36:46 PM Status: Color: ■ Layer: Space: | EXPLORATION LOCATION PLAN |
| ect No: D18-2-175 : /n by: | Subject: Text Box Page Label: 12 Author: wbarreire Date: 1/15/2019 6:38:28 PM Status: Color: ■ Layer: Space: | D18-2-175 |

| ect No: D18-2-175 : /n by: | Subject: Text Box Page Label: 13 Author: wbarreire Date: 1/15/2019 6:38:28 PM Status: Color: ■ Layer: Space: | D18-2-175 |
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| ect No: D18-2-175 : /n by: | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/15/2019 6:38:28 PM Status: Color: Layer: Space: | D18-2-175 |
| ect No: D18-2-175 : /n by: | Subject: Text Box Page Label: 15 Author: wbarreire Date: 1/15/2019 6:38:28 PM Status: Color: ■ Layer: Space: | D18-2-175 |
| by: ed by: BTM | Subject: Text Box Page Label: 12 Author: wbarreire Date: 1/15/2019 6:38:55 PM Status: Color: ■ Layer: Space: | BTM |
| by: ed by: BTM | Subject: Text Box Page Label: 13 Author: wbarreire Date: 1/15/2019 6:38:55 PM Status: Color: ■ Layer: Space: | ВТМ |
| by: ed by: BTM | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/15/2019 6:38:55 PM Status: Color: ■ Layer: Space: | ВТМ |

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| Dy. | - Page Label: 15 | BTM |
| ed bv: BTM | Author: wharreire | |
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| | Date: 1/15/2019 6:39:21 PM | |
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| Market and the second s | Subject: Text Box Page Label: 21 Author: Abbas Al Eyoon Date: 1/17/2019 3:29:48 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 23 min./in. LTAR = 0.60 gal./s.f./day |
|--|--|--|
| The second secon | Subject: Text Box Page Label: 22 Author: Abbas Al Eyoon Date: 1/17/2019 3:29:53 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 5 min./in. LTAR = 0.80 gal./s.f./day |
| The second secon | Subject: Text Box Page Label: 23 Author: Abbas Al Eyoon Date: 1/17/2019 3:29:59 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 5 min./in. LTAR = 0.80 gal./s.f./day |
| The second secon | Subject: Text Box Page Label: 24 Author: Abbas Al Eyoon Date: 1/17/2019 3:30:05 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 5 min./in. LTAR = 0.80 gal./s.f./day |
| | Subject: Text Box Page Label: 25 Author: Abbas Al Eyoon Date: 1/17/2019 3:30:10 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 7 min./in. LTAR = 0.80 gal./s.f./day |
| The same is a second se | Subject: Text Box Page Label: 26 Author: Abbas Al Eyoon Date: 1/17/2019 3:30:18 PM Status: Color: ■ Layer: Space: | Note: Average Percolation Rate = 6 min./in. LTAR = 0.60 gal./s.f./day |

| The second state is a second s | Subject: Text Box Page Label: 27 Author: Abbas Al Eyoon Date: 1/17/2019 3:30:26 PM Status: Color: Layer: Space: | Note: Average Percolation Rate = N/A LTAR = 0.60 gal./s.f./day |
|--|--|--|
| Image: Control of the second | Subject: Text Box Page Label: 28 Author: Abbas Al Eyoon Date: 1/17/2019 3:30:40 PM Status: Color: Layer: Space: | Note: Average Percolation Rate = N/A LTAR = 0.60 gal./s.f./day |
| Image: state | Subject: Text Box Page Label: 29 Author: Abbas Al Eyoon Date: 1/17/2019 3:31:11 PM Status: Color: Layer: Space: | Note: Average Percolation Rate = N/A LTAR = 0.80 gal./s.f./day |
| Loca 17.0% MC-s 17.0% Comp + 0.7% Under thick anothings pressure | Subject: Text Box Page Label: 21 Author: Abbas Al Eyoon Date: 1/17/2019 3:33:31 PM Status: Color: ■ Layer: Space: | MC= 17.0% Comp. = 0.7% Under 1ksf surcharge pressure |
| Anton Average Market Sector Average Averag | Subject: Text Box Page Label: 16 Author: Brysen Mustain Date: 1/17/2019 4:41:08 PM Status: Color: ■ Layer: Space: | Not to Scale. Base image obtained from USGS 7.5 Minute Quadrangle, 1961 |
| the fact that the second secon | Subject: Text Box Page Label: 17 Author: Brysen Mustain Date: 1/17/2019 5:54:31 PM Status: Color: Layer: Space: | Not to Scale. Base image obtained from https://dsat.services.femadata.com/arcgis/rest/serv ices/FEMA_R8/RiskMAP_EIPasoCounty_Colorado /MapServer/legend, 2019 |

| Nate: 1-Populated area indexe floot 1-Population - Data free nanopol floot hazards | Subject: Text Box Page Label: 17 Author: wbarreire Date: 1/18/2019 10:01:47 AM Status: Color: Layer: Space: | Notes: - Purple shaded areas indicate flood hazard risk - Site has no mapped flood hazards |
|---|--|--|
| Ν | Subject: Text Box Page Label: 12 Author: wbarreire Date: 1/18/2019 10:03:58 AM Status: Color: Layer: Space: | N |
| Ν | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:03:58 AM Status: Color: Layer: Space: | N |
| Ν | Subject: Text Box Page Label: 10 Author: Brysen Mustain Date: 1/18/2019 10:05:17 AM Status: Color: Layer: Space: | N |
| NRCS SOIL SURVEY MAP | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:31:23 AM Status: Color: Layer: Space: | NRCS SOIL SURVEY MAP |
| | Subject: Text Box Page Label: 14 Author: Brysen Mustain Date: 1/18/2019 10:40:07 AM Status: Color: Layer: Space: | Not to Scale. Base image from https://websoilsurvey.sc.egov.usda.gov/App/WebS oilSurvey.aspx |

| | Subject: Text Box Page Label: 15 Author: Brysen Mustain Date: 1/18/2019 10:40:07 AM Status: Color: ■ Layer: Space: | Not to Scale. Base image from https://websoilsurvey.sc.egov.usda.gov/App/WebS oilSurvey.aspx |
|---|---|--|
| NRCS SQL SURVYT MAP (Sell Descriptions) | Subject: Text Box Page Label: 15 Author: wbarreire | NRCS SOIL SURVEY MAP (Soil Descriptions) |
| | Date: 1/18/2019 10:43:00 AM Status: Color: ■ Layer: Space: | |
| 41 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:50:34 AM Status: Color: Layer: Space: | 41 |
| 93 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:50:37 AM Status: Color: Layer: Space: | 93 |
| 41 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:50:42 AM Status: Color: Layer: Space: | 41 |
| 93 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:50:51 AM Status: Color: Layer: Space: | 93 |

| 1 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:51:02 AM Status: Color: Layer: Space: | 1 |
|-------------------------------------|---|---|
| 41 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:51:28 AM Status: Color: Layer: Space: | 41 |
| 93 | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 10:51:42 AM Status: Color: Layer: Space: | 93 |
| oject No: te: 1/15/19 awn by: | Subject: Text Box Page Label: 12 Author: wbarreire Date: 1/18/2019 11:32:29 AM Status: Color: ■ Layer: Space: | 1/15/19 |
| | Subject: Text Box Page Label: 12 Author: Brysen Mustain Date: 1/18/2019 11:32:34 AM Status: Color: ■ Layer: Space: | Not to Scale. Base image from https://ngmdb.usgs.gov/Prodesc/proddesc_76327. htm (Geologic Map of the Monument Quadrangle, El Paso County, Colorado, 2003) |
| oject No: te: 1/15/19 awn by: | Subject: Text Box Page Label: 14 Author: wbarreire Date: 1/18/2019 11:33:12 AM Status: Color: ■ Layer: Space: | 1/15/19 |

| oject No: | Subject: Text Box – Page Label: 15 | 1/15/19 |
|---------------------------|---|--|
| te: 1/15/19 | Author: wbarreire | |
| awn by: | Date: 1/18/2019 11:38:24 AM Status: Color: ■ Layer: Space: | |
| REGIONAL GEOLOGY MAP | Subject: Text Box Page Label: 12 Author: wbarreire Date: 1/18/2019 11:48:04 AM Status: Color: Layer: Space: | REGIONAL GEOLOGY MAP |
| SITE-SPECIFIC GEOLOGY MAP | Subject: Text Box Page Label: 13 Author: wbarreire Date: 1/18/2019 12:06:52 PM Status: Color: ■ Layer: Space: | SITE-SPECIFIC GEOLOGY MAP |
| | Subject: Text Box Page Label: 13 → Author: Brysen Mustain → Date: 1/18/2019 12:08:40 PM Status: Color: ■ Layer: Space: | Not to Scale. Base image dated 06/09/2017 and obtained from Google Earth, 2019. Site-specific Geology Mapping by Jim Frohbieter, Professional Geologist |
| SEPTIC SUITABILITY MAP | Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/18/2019 2:34:12 PM Status: Color: ■ Layer: Space: | SEPTIC SUITABILITY MAP |
| - POSSEL KOUS LOOPIN | Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/18/2019 2:53:00 PM ─ Status: Color: ■ Layer: Space: | - POSSIBLE HOUSE LOCATION |

| -POSSE MITS Visit LOCKING with ma an another in the last Diff Sector Sector Sector Research and the last Diff Sector Sector Sector Research Research Sector | Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/18/2019 2:54:03 PM Status: Color: ■ Layer: Space: | - POSSIBLE WATER WELL LOCTAION (wells must be a minimum of 100 feet from OWTS absorption fields) |
|--|--|---|
| -POSSILE DATS MEDIPTICA FIELD LOCATION | Subject: Text Box Page Label: 18 Author: Shane Noonan Date: 1/18/2019 2:54:21 PM Status: Color: ■ Layer: Space: | - POSSIBLE OWTS ABSORPTION FIELD LOCATION |
| | Subject: Text Box Page Label: 18 Author: wbarreire Date: 1/18/2019 2:54:54 PM Status: Color: ■ Layer: Space: | - POSSIBLE ALTERNATE OWTS ABSORPTION FIELD LOCATION |
| Project No: Date: 1/15/19 rev 2: 4/16/20 Drawn by: Reviewed by: | Subject: Text Box Page Label: 11 Author: wbarreire Date: 4/16/2020 6:32:40 PM Status: Color: ■ Layer: Space: | 1/15/19 rev 2: 4/16/20 |
| Project No: Date: 1/15/19 rev 2: 4-16-20 Drawn by: Reviewed by: | Subject: Text Box Page Label: 18 Author: wbarreire Date: 4/16/2020 6:58:37 PM Status: Color: ■ Layer: Space: | 1/15/19 rev 2: 4-16-20 |
| Ν | Subject: Text Box Page Label: 11 Author: wbarreire Date: 4/16/2020 7:20:21 PM Status: Color: Layer: Space: | N |

| N | Subject: Text Box Page Label: 18 Author: wbarreire Date: 4/16/2020 7:21:10 PM Status: Color: Layer: Space: | Ν |
|------|--|------|
| Qsw | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:28:11 PM Status: Color: Layer: Space: | Qsw |
| Tkd4 | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:28:11 PM Status: Color: Layer: Space: | Tkd4 |
| SW | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:28:11 PM Status: Color: Layer: Space: | SW |
| Qsw | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:28:11 PM Status: Color: Layer: Space: | Qsw |
| Tkd4 | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:28:11 PM Status: Color: Layer: Space: | Tkd4 |

| - VANG TEST PRT LOCKTOON | Subject: Text Box Page Label: 11 Author: wbarreire Date: 4/16/2020 7:29:05 PM Status: Color: Layer: Space: | - VIVID TEST PIT LOCATIONS |
|---|--|---|
| -we convectutor tor locators | Subject: Text Box Page Label: 11 Author: Shane Noonan Date: 4/16/2020 7:29:09 PM Status: Color: Layer: Space: | - VIVID BORING/PERCOLATION TEST LOCATIONS |
| -6000001 KRAN LOOMON PREVIOU RUM Approximation and the second sec | Subject: Text Box Page Label: 11 Author: wbarreire Date: 4/16/2020 7:29:13 PM Status: Color: Layer: Space: | - GEOQUEST BORING LOCATIONS (PREVIOUS STUDY) |
| Yroject No: 2ate: 1/15/19 rev 2: 4-16-20 3rawn by: teviewed by: | Subject: Text Box Page Label: 13 Author: wbarreire Date: 4/16/2020 7:30:40 PM Status: Color: Layer: Space: | 1/15/19 rev 2: 4-16-20 |
| Ν | Subject: Text Box Page Label: 16 Author: Brysen Mustain Date: 4/26/2018 10:23:17 AM Status: Color: Layer: Space: | N |
| Ν | Subject: Text Box Page Label: 17 Author: Brysen Mustain Date: 4/26/2018 10:23:17 AM Status: Color: Layer: Space: | N |

| | Subject: Text Box Page Label: 13 | Tkd4 - Dawson Formation (Facies #4) |
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| Tixd4 - Dawson Formation (Facies #4) | Author: wdarreire Date: 9/11/2019 5:05:26 PM | |
| | Status: | |
| | Color: | |
| | Layer: | |
| | Space: | |
| | Subiect: Text Box | |
| | Page Label: 13 | SW - Seasonally Wet |
| SW - Seasonally Wet | Author: wbarreire | |
| | Date: 9/11/2019 5:05:26 PM | |
| with the second second sec. | - Status: | |
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| | Subject: Text Box | Ν |
| N | Author: wharreire | |
| | Date: 9/11/2019 5:05:26 PM | |
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| | Subject: Text Box | Osw - Holocene & Pleistocene aged sheet wash |
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| | Date: 9/11/2019 5:06:10 PM | |
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| 000 | Page I abel: 13 | Qsw |
| USW | Author: wbarreire | |
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| | Subject: Text Box | |
| | Darra Labala 40 | Tkd4 |
| l kd4 | Page Laber: 13 | |
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| | Page Label: 13 | |
| Prebles Habitat | Author: wbarreire | |
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| | Subject: Text Box | |
| | Page Label: 13 | Proposed Detention Pond |
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| Proposed Detention Pond | Author: wbarreire | |
| | Date: 9/13/2019 4:24:19 PM | |
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| Typewritten Te | ext (33) | |
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| lo: D18-2-175 | Subject: Typewritten Text Page Label: 16 Author: Brysen Mustain Date: 1/15/2019 4:57:45 PM Status: Color: ■ Layer: Space: | D18-2-175 |
| lo: D18-2-175 | Subject: Typewritten Text Page Label: 17 Author: Brysen Mustain Date: 1/15/2019 4:57:45 PM Status: Color: ■ Layer: Space: | D18-2-175 |
| lo: D18-2-175 | Subject: Typewritten Text Page Label: 10 Author: Brysen Mustain Date: 1/15/2019 4:57:45 PM Status: Color: ■ Layer: Space: | D18-2-175 |
| roject No: ate: 1/15/19 rawn by: eviewed by: | Subject: Typewritten Text Page Label: 16 Author: Brysen Mustain Date: 1/15/2019 6:26:47 PM Status: Color: Layer: Space: | 1/15/19 |
| roject No: ate: 1/15/19 rawn by: eviewed by: | Subject: Typewritten Text Page Label: 17 Author: Brysen Mustain Date: 1/15/2019 6:26:47 PM Status: Color: ■ Layer: Space: | 1/15/19 |
| roject No: ate: 1/15/19 rawn by: eviewed by: | Subject: Typewritten Text Page Label: 10 Author: Brysen Mustain Date: 1/15/2019 6:26:47 PM Status: Color: ■ Layer: Space: | 1/15/19 |

| | Subject: Typewritten Text | |
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| | Page Label: 16 | TOPOGRAPHIC MAP |
| TOPOGRAPHIC MAP | Author: Brysen Mustain | |
| | - Date: 1/17/2010 4:29:51 DM | |
| | Statuc: | |
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| | Layer: | |
| | Space: | |
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| | Subject: Typewritten Text | |
| | Page Label: 17 | FLOOD HAZARD MAP |
| FLOOD HAZARD MAP | Author: Brysen Mustain | |
| | - Dete: 1/17/2010 6:01:22 DM | |
| | Date. 1/17/2019 0.01.23 FW | |
| | - Status: | |
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| | Layer: | |
| | Space: | |
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| | Subject: Typewritten Text | |
| _ | Page Label: 11 | 2 |
| 2 | Author: Bryson Mustain | |
| 2 | Dete: 1/17/2010 6:02:50 DM | |
| | Date. 1/17/2019 0.03.30 FW | |
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| | Layer: | |
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| | Subject: Typewritten Text | â |
| ~ | Page Label: 17 | 0 |
| 6 | Author: Brysen Mustain | |
| Ŭ | Date: 1/18/2019 10:11:01 AM | |
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| | Subject: Typewritten Text | 5 |
| - | Page Label: 16 | 5 |
| 5 | Author: Brysen Mustain | |
| • | Date: 1/18/2019 10:11:34 AM | |
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| | Subject: Typewritten Toxt | |
| _ | | 4a |
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| | Author: Brysen Mustain | |
| | Date: 1/18/2019 10:39:16 AM | |
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| | Subject: Typewritten Text | |
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| /h | Page Label: 15 | 4b |
| 40 | Author: Brysen Mustain | |
| | Date: 1/18/2019 10:42:08 AM | |
| | Status: | |
| | Color: | |
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| | Space: | |
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| | Subject: Typewritten Text | 0- |
| | Page Label: 12 | 3a |
| - 3a | Author: Brysen Mustain | |
| 00 | Date: 1/18/2019 12:05:29 PM | |
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| | Subject: Typewritten Text | 7 |
| 7 | Author: Driven Mustein | |
| | Author: Drysen Musiain Date: 1/18/2010 2:24:16 DM | |
| | Date: 1/16/2019 2.34.10 PM | |
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| | Shace: | |
| | opace. | |
| | | |
| | Subject: Typewritten Text | Grandwood Subdivision |
| Crandwood Subdivision | Page Label: 10 | El Paso County, Colorado |
| El Paso County, Colorado | Author: Brysen Mustain | |
| | Date: 1/18/2019 3:31:14 PM | |
| | Status: | |
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| | Layer: | |
| | Space. | |
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| | - Subject: Typewritten Text | Crandwood Subdivision |
| | Page Label: 11 | Glandwood Subdivision |
| Grandwood Subdivision El Paso County, Colorado | Author: Brysen Mustain | El Paso Courity, Colorado |
| | Date: 1/18/2019 3:32:28 PM | |
| | Status: | |
| | Color: | |
| | Layer: | |
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| | - Subject: Typewritten Text | Oren durand Out divisition |
| | Page Label: 12 | Grandwood Subdivision |
| Grandwood Subdivision El Paso County, Colorado | Author: Brysen Mustain | El Paso County, Colorado |
| | Date: 1/18/2019 3:33:02 PM | |
| | Status: | |
| | Color: 🔳 | |
| | Layer: | |
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| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 13 Author: Brysen Mustain Date: 1/18/2019 3:33:39 PM Status: Color: ■ Layer: Space: | Grandwood Subdivision El Paso County, Colorado |
|---|--|---|
| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 14 Author: Brysen Mustain Date: 1/18/2019 3:34:17 PM Status: Color: ■ Layer: Space: | Grandwood Subdivision El Paso County, Colorado |
| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 15 Author: Brysen Mustain Date: 1/18/2019 3:34:41 PM Status: Color: Layer: Space: | Grandwood Subdivision El Paso County, Colorado |
| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 16 Author: Brysen Mustain Date: 1/18/2019 3:35:13 PM Status: Color: ■ Layer: Space: | Grandwood Subdivision El Paso County, Colorado |
| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 17 Author: Brysen Mustain Date: 1/18/2019 3:35:43 PM Status: Color: ■ Layer: Space: | Grandwood Subdivision El Paso County, Colorado |
| Grandwood Subdivision El Paso County, Colorado | Subject: Typewritten Text Page Label: 18 Author: Brysen Mustain Date: 1/18/2019 3:36:10 PM Status: Color: ■ Layer: Space: | Grandwood Subdivision El Paso County, Colorado |

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|-----------|---|------|
| | Subject: Typewritten Text Page Label: 13 | 3b |
| 20 | Author: Brysen Mustain Date: 1/19/2019 11:55:28 AM Status: | |
| | Color: ■ Layer: | |
| | Space: | |
| by: W/IB | Subject: Typewritten Text Page Label: 16 | WJB |
| 1 by. WJD | Author: Brysen Mustain | |
| ved by: | Status: Color: | |
| | Layer: Space: | |
| | Subject: Typewritten Text | W.JB |
| ı by: WJB | Page Label: 17Author: Brysen Mustain | |
| ved by: | Date: 12/3/2018 10:41:42 AM Status: | |
| | Color: | |
| | Space: | |
| | Subject: Typewritten Text | WIB |
| ı by: WJB | Page Label: 10 Author: Brysen Mustain | |
| ved by: | Date: 12/3/2018 10:41:42 AM Status: | |
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| | Subject: Typewritten Text | втм |
| y:BTM | Author: Brysen Mustain | |
| | Date: 12/3/2018 10:41:48 AM Status: | |
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| | Subject: Typewritten Text Page Label: 17 | втм |
| y:BTM | Author: Brysen Mustain | |
| - | Date: 12/3/2018 10:41:48 AM Status: | |
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| y:BTM | Subject: Typewritten Text Page Label: 10 Author: Brysen Mustain Date: 12/3/2018 10:41:48 AM Status: Color: ■ Layer: Space: | ВТМ |
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| VICINITY MAP | Subject: Typewritten Text Page Label: 10 Author: Brysen Mustain Date: 12/2/2018 11:04:25 AM | VICINITY MAP |
| | Status: Color: Layer: Space: | |
| 1 | Subject: Typewritten Text Page Label: 10 Author: Brysen Mustain Date: 3/8/2018 12:37:41 PM Status: Color: ■ Layer: Space: | 1 |
| Workpoint (21) | | |
| ϕ | Subject: Workpoint Page Label: 11 Author: Brysen Mustain Date: 1/15/2019 5:55:26 PM Status: Color: Layer: Space: | |
| ϕ | Subject: Workpoint Page Label: 11 Author: wbarreire Date: 1/15/2019 5:57:26 PM Status: Color: Layer: Space: | |
| \ominus | Subject: Workpoint Page Label: 11 Author: wbarreire Date: 1/15/2019 6:03:47 PM Status: Color: Layer: Space: | |

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Color: Layer: Space: