



Central Valley Regional Water Quality Control Board

25 April 2019

WDID: 5A450001003

Mr. Patrick Minturn
Shasta County Department of Public Works
1855 Placer Street
Redding, CA 96001

**CERTIFIED MAIL:
7018 1130 0001 8556 0073**

NOTICE OF APPLICABILITY (NOA), WATER QUALITY ORDER 2014-0153-DWQ-R5310, SHASTA COUNTY SERVICE AREA NO. 13, ALPINE MEADOWS/WHISPERING WOODS, SHASTA COUNTY

On 1 March 2019 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff inspected the wastewater facilities at the Shasta County Service Area No. 13 (hereafter "Discharger"), or Alpine Meadows and Whispering Woods Estates subdivisions, located on Alpine Meadows Road and Emigrant Trail, in Shingletown, Shasta County. Based on the site inspection and a case file review, the facility treats and disposes of less than 100,000 gallons of wastewater per day and is therefore eligible for coverage under the general and specific conditions of State Water Resources Control Board (State Water Board) Water Quality Order 2014-0153-DWQ *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order). This letter serves as formal notice that the General Order is applicable to your facility and the wastewater discharge described below. You are hereby assigned General Order 2014-0153-DWQ-R5310 for your facility.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which prescribe mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the *General Order* and the attached *Monitoring and Reporting Program* (MRP). This MRP was developed after consideration of your waste characterization and site conditions described in the attached *Technical Memorandum*.

REGULATORY BACKGROUND

The Central Valley Water Board currently regulates discharges from this Facility under Waste Discharge Requirements (WDRs) Order R5-2005-0025, adopted on 27 January 2005. The Monitoring and Reporting Program requires the following:

- Monthly effluent flow from each septic tank/leach field system as total gallons
- Monthly visual monitoring of the leach field areas for saturated soils, standing liquid, or nuisance conditions.
- Annual septic tank maintenance inspections and pumping events.
- Weekly depth to water in Alpine Meadows piezometers, both disposal areas (January through March)

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

364 Knollcrest Drive, Suite 205, Redding, CA 96002 | www.waterboards.ca.gov/centralvalley

- Monthly depth to water in Alpine Meadows piezometers, both disposal areas (April through December)
- Monthly depth to water in Whispering Woods Estates piezometers

DISCHARGE DESCRIPTION

The Alpine Meadows subdivision is located on the south side of Highway 44 on Alpine Meadows Road and Chateau Drive in Shingletown, Shasta County. The Alpine Meadows wastewater treatment and disposal facility is located in Section 5, T30N, R1E, MDB&M in Shasta County. The system consists of two septic tanks, a gravity collection system, a lift station equipped with alternating pumps, a force main and two leach field areas, one serving ten commercial lots with a design capacity of 3,000 gallons per day (gpd) and the other serving four residential lots with a 2,128 gpd capacity. The four residential lots have not been developed and the associated leach field area has not been used. The leach fields are all on the same parcel and adjacent to one another. Both leach field systems have piezometers to monitor groundwater depth.

The Whispering Woods Estates subdivision is located in Section 32 T31N, R1E, MDB&N on the north side of Highway 44 on Emigrant Trail Road. The wastewater system serves 42 residences with a gravity sewer collection system, a common septic tank, a lift station with alternating pumps, a force main, and a leach field. The treatment and disposal system has a maximum daily flow capacity of 14,700 gpd. The leach field area has piezometers to monitor shallow groundwater depths.

This is an existing facility; therefore, enrollment under the General Order is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15301 which applies to ongoing or existing projects.

FACILITY SPECIFIC REQUIREMENTS

The Discharger will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA and the General Order 2014-0153-DWQ-R5310, with all attachments.

Additionally, the General Order states in Section B.1.L that the discharger shall comply with the setbacks as described in Table 3. This table summarizes different setback requirements for wastewater system equipment, activities, land application areas, and storage and/or treatment ponds from sensitive receptors and property lines where applicable. The Discharger shall comply with the following applicable setback requirements as summarized in the following table.

Site Specific Applicable Setback Requirements					
Equipment or Activity	Domestic Well	Flowing Stream ^a	Ephemeral Stream Drainage ^b	Property Line	Lake or Reservoir ^d
Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System ^e	150 ft. ^y 100 ft. ^o 50 ft. ^c	20 ft. ¹	50 ft.	50 ft. ^{c, z}	200 ft. ^w 50 ft. ^c
Leach Field ^f	100 ft. ^{o, c}	100 ft. ^c	50 ft.	50 ft. ^c	200 ft. ^w 100 ft. ^c
¹ Initial setback requirements of 50 feet have been waived in accordance with Section B.1.L (v). ^a A flowing stream shall be measured from the ordinary high-water mark established by fluctuations of water elevation and indicated by characteristics such as shelving, changes in soil character, vegetation type, presence of litter or debris, or other appropriate means. ^b Ephemeral Stream Drainage denotes a surface water drainage feature that flows only after rain or snow-melt and does not have sufficient groundwater seepage (baseflow) to maintain a condition of flowing surface water. The drainage shall be measured from a line that defines the limit of the ordinary high-water mark (described in "a" above). Irrigation canals are not considered ephemeral streams drainage features. The ephemeral stream shall be a "losing stream" (discharging surface water to groundwater) at the proposed wastewater system site. ^c Setback established by California Plumbing Code, Table K-1. ^d Lake or reservoir boundary measured from the high-water line. ^e Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System addresses equipment located below ground or that impedes leak detection by routine visual inspection. ^f Leach Field includes all subsurface dispersal systems, including mound systems except seepage pits. ^o California Well Standards, part II, section 8. Site-specific conditions may allow reduced setback or require an increased setback. See discussion in Well Standards. ^w Setback established by the Onsite Wastewater Treatment System Policy, section 7.5.5. ^y Setback established by Onsite Wastewater Treatment System Policy, section 7.5.6. ^z Collection system to property line setback is not applicable.					

The collection system is greater than one mile in length and publicly-owned which means it is subject to the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems Order No. 2006-0003-DWQ, adopted by the State Water Resources Control Board (State Water Board) on 2 April 2006. The facility is currently enrolled and has a Sanitary Sewer Overflow (SSO) Database account through the California Integrated Water Quality System (CIWQS) to report SSOs to the State Water Board, as required.

Failure to comply with the requirements in the documents could result in an enforcement action as authorized by provisions of the California Water Code. Discharge of wastes other than those described in this NOA is prohibited. If the method of waste disposal changes from that described in this NOA, you must submit a new Report of Waste Discharge describing the new operation.

The required annual fee specified in the annual billing from the State Water Board shall be paid until this NOA is officially terminated. You must notify this office in writing if the discharge regulated by the General Order ceases, so that we may terminate coverage and avoid unnecessary billing.

Facility Information	
Facility Name	Shasta CSA No. 13, Alpine Meadows/Whispering Woods
Program	WDR
Order Number	2014-0153-DWQ-R5310
WDID	5A450001003
Design Flow	19,825 gpd
Threat and Complexity	3B
Monitoring Requirements	Daily flow, monthly depth to water in piezometers, quarterly visual inspections of leach field area, annual septic tank evaluations

Billing Information	
Name	Shasta County Public Works Department
Contact	Troy Bartolomei
Email	tbartolomei@co.shasta.ca.us
Address	1855 Placer St., Redding, CA 96001
Phone	530-225-5661

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, MRPs, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyredding@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disc and mailed to the appropriate regional water board office, in this case 364 Knollcrest Drive, Suite 205, Redding, CA 96002. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: WDR
Facility Name: Alpine Meadows/Whispering Woods

WDID: 5A4450001003
Order: 2014-0153-DWQ-R5310

Please note that WDRs Order R5-2005-0025 is proposed to be rescinded at the 6/7 June 2019 meeting of the Central Valley Water Board. Following Board meeting approval, coverage for your facility under the 2014-0153-DWQ General Order shall become applicable subject to this Notice of Applicability.

If you have any questions regarding submitting an updated report of waste discharge, making changes to your permitted operations, compliance or enforcement please contact Monique Gaido by phone at (530) 224-4205, by email at monique.gaido@waterboards.ca.gov, or at the footer address.

Original signed by Bryan Smith

(for) Patrick Pulupa,
Executive Officer

MEG: ch

Attachments: Technical Memorandum
Monitoring and Reporting Program
Shasta CSA No. 13, Alpine Meadows/Whispering Woods Location Map
Alpine Meadows/Whispering Woods Facility Map
Alpine Meadows Leach Field Map
Whispering Woods Leach Field Map
General Order 2014-0153-DWQ

cc w/o encl: Shasta County Environmental Health Division, Redding
Tim O'Brien, State Water Board, Sacramento
David Lancaster, SWRCB, Office of Chief Counsel, Sacramento

Central Valley Regional Water Quality Control Board

TECHNICAL MEMORANDUM

TO: George Low, P.G.
Senior Engineering Geologist

FROM: Monique Gaido, P.G.
Engineering Geologist

DATE: 25 April 2019

SIGNATURE: Original signed by Monique Gaido

SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR SHASTA COUNTY SERVICE AREA NO.13, ALPINE MEADOWS/WHISPERING WOODS, SHASTA COUNTY, GENERAL ORDER WQ 2014-0153-DWQ ENROLLMENT

Staff has reviewed the case file and the 11 March 2019 Inspection Report for the Shasta County Service Area No.13 wastewater treatment and disposal systems (Facility). The Report assesses the general condition of the two wastewater treatment systems and the leach field areas serving the subdivisions known as Alpine Meadows and Whispering Woods Estates which are owned and operated by Shasta County Service Area No.13 (Discharger). The Discharger has kept adequate maintenance documentation, and, with the exception of recurring wet weather inflow and infiltration (I&I) problems for both systems, all treatment and collection infrastructure components appear to be in good order.

The Alpine Meadows subdivision is located on the south side of Highway 44 in the City of Shingletown in Shasta County. Much of the Alpine Meadows collection system is located within a designated wetland area. In 1982 when the wastewater system was constructed, the Army Corps of Engineers (ACOE) did not claim any regulatory control over the wetland area. Any modification to the system in the wetland would now require ACOE permits and possibly a wetland mitigation plan.

The wastewater system serves ten commercial lots and consists of a gravity sewer, common septic tank, a lift station, force main and dual leach field system to accommodate up to 3,000 gpd. In 1999 an eleventh lot was subdivided into four residential lots and an additional leach field area was added with a design capacity of 2,128 gpd. The four residences, each intended to have a septic tank and effluent pump, have not been built; the leach field has not been used. The Shingletown Medical Center added a septic tank effluent pump (STEP) system in 2008.

The controlling element in the wastewater treatment system is the disposal field capacity. The residential leach field was designed to address slow percolation rates that average approximately 50 minutes per inch (mpi). The commercial leach field is equipped with six piezometers to monitor shallow groundwater depth. The lot has sufficient land area to

accommodate replacement leach fields for both the commercial and residential fields, with a combined disposal capacity of 5,128 gpd.

The Whispering Woods Estates subdivision consists of 42 residences served by a gravity flow collection system, a 58,700-gallon concrete septic/holding tank (partitioned into a 44,000 gallon septic tank and a 14,700 gallon holding tank), a lift station, force main, and a leach field with 4,900 linear feet of leach line. The system's design capacity is 14,700 gpd. Percolation rates in the leach field area range from 9 to 60 minutes per inch (mpi). Twelve piezometers were installed in the leach field area to monitor shallow groundwater depth.

Based on historical flow data from 2016 to present, average daily wastewater flow to the Alpine Meadows leach field is less than 5,000 gallons per day (gpd) except for occasional exceedances in wet weather conditions, presumably due to I&I. The monthly maximum daily flow in March 2018 was approximately 6,400 gpd. I&I issues occurred from December 2016 through April 2017 with average daily flows ranging from 17,000 gpd to 21,600 gpd. The same period of record for the Whispering Woods system shows average daily flows ranging from 22,300 to 69,100 gpd. The maximum average daily flow in for 2018 was 6,860 gpd. The Discharger reported Sanitary Sewer Overflows (SSOs) in February 2017 and in February 2019. The 2017 SSO occurred at the Alpine Meadows collection tank and lift station and was caused by I&I problems. The 2019 SSO took place at the Whispering Woods collection tank and lift station and was caused by a power outage following a snow storm.

The Central Valley Water Board currently regulates the Facility's wastewater discharges under Waste Discharge Requirements Order R5-2005-0025 (WDRs), adopted on 27 January 2005. The WDRs required the Discharger to submit a plan and time schedule to address the excessive I&I problems. In response, the Discharger issued a July 2005 15-Year Maintenance Plan which proposed converting all service connections to a septic tank effluent pump (STEP) system and running a force main through the existing gravity collection system. After conversion to STEP systems, the gravity collection system would be sealed off from the collection tank. The proposed improvements included new alternating pumps for lift stations at both systems, smoke testing for illegal storm drain connections to the Whispering Woods collection system, and video inspection to identify priority areas for collection system replacement for the Alpine Meadows system. The case file shows that the project was not completed.

Potential Threats to Water Quality

The leach field area serving the Alpine Meadows subdivision is located in Section 5, T30N, R1E, MDB&M. The Whispering Woods subdivision leach field is located in Section 32, T31N, R1E, MDB&M. Surface water drainage is to Ash Creek and Woodridge Lake. Surface water from Woodridge Lake is to Ash Creek, which is tributary to the Sacramento River above Balls Ferry and to Shingle Creek, which is tributary to Bear Creek and, in turn, to the Sacramento River.

The Alpine Meadows lift station near Alpine Meadows Drive is located 20 feet from Ash Creek, which flows year-round. The collection tank at the lift station is approximately 40 feet from Ash Creek and the gravity sewer line is more than 50 feet from the creek. The Alpine Meadows lift station is equipped with a visual alarm and the Whispering Woods lift station is equipped with autodial features to notify operators in case of emergency. There is no backup power supply or secondary containment in case of overflow. Although components of the Alpine Meadows wastewater system are located less than the 50 feet recommended by General Order

2014-0153-DWQ, the emergency response system provide adequate response time to protect adjacent properties from impact and the setback limits have been waived, as described by Requirements Section B.1, L, (v). of the General Order.

The Whispering Woods collection tank and lift station are located approximately 30 feet from a seasonal drainage to Ash Creek. Although this is less than the 50 feet recommended by General Order 2014-0153-DWQ, the emergency response auto-dial system provides adequate response time to protect adjacent properties from impact. The setback limits have also been waived, as described by Requirements Section B.1, L, (v). of the General Order.

The nearest potable water well to the Alpine Meadows leach field area is approximately 150 feet south-southeast of the leach field. The four Chateau Drive properties are located south of the leach field area and are planned to have individual domestic water supply wells. The nearest potable water well to the Whispering Woods leach field is approximately 1,200 feet to the west. The Whispering Woods subdivision has two water supply wells: Well 1 was decommissioned after testing positive for bacteriological contamination. The well log reports water was first encountered at 128 feet below ground surface (bgs), and it is screened from 95 to 360 feet bgs. Well 2 serves as the community supply well. According to the well log, the first encountered groundwater occurred at 78 feet bgs, and its screened interval is from 80 to 370 feet bgs.

In the Alpine Meadows leach field area, percolation rates in the soils ranged from an average of 39 minutes per inch (MPI) in the original leach field area to 50 MPI in the additional area added to serve the Chateau Drive properties. A dual-leach field system was designed to mitigate for slow percolation rates. Soils in the Whispering Woods leach field area showed percolation rates ranging from 9 to 60 MPI. Both leach field areas are equipped with piezometers in the center of each section to monitor the presence and depth to shallow groundwater.

Completion of the Nitrate Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? Yes, monthly maximum daily flows for the Whispering Woods subdivision have reached 69,000 gpd; however, average daily flows are generally less than 5,000 gpd. Monthly maximum daily flows have not exceeded 20,000 gpd at the Alpine Meadows subdivision. Flows for both facilities increase seasonally, with higher flows occurring during the winter months (December – April). Although flows have occasionally exceeded 20,000 gpd, the General Order monitoring requirements do not require nitrogen monitoring for septic tanks or leach field systems.

Conclusion: No nitrogen removal is required. In the future, if nitrogen becomes a concern, effluent monitoring for nitrogen may be required. Additional measures such as nitrogen removal and installation of a groundwater monitoring well network may also be required.

Monitoring Requirements

To protect water quality, General Order monitoring requirements will be sufficient. In summary, Staff recommends monthly monitoring of depth to water measurements in the piezometers for shallow groundwater conditions, quarterly reporting of the average daily flow rate and leach field monitoring, and annual inspections of the septic tank. Quarterly monitoring will be reported by the first day of the second month after the quarter ends (e.g. January-March report is due by May 1st). Annual monitoring will be included with the fourth quarter monitoring.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-5310

FOR

SHASTA COUNTY SERVICE AREA NO. 13
ALPINE MEADOWS / WHISPERING WOODS

SHASTA COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system. This MRP is issued pursuant to Water Code section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The State Water Resources Control Board (State Water Board) and Regional Water Boards are transitioning to the paperless office system. In some regions, Dischargers will be directed to submit reports (both technical and monitoring reports) to the State Water Board's Electronic Content Management (ECM) database via email in portable document format (pdf). The email address for the ECM submittal is: centralvalleyredding@waterboards.ca.gov

Water Code section 13267 states, in part:

"In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports."

Water Code section 13268 states, in part:

"(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs."

The Discharger owns and operates the wastewater system that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ. The reports are necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to Water Code section 13267, the Discharger shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Board California Environmental Laboratory Accreditation Program certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

SEPTIC TANK MONITORING

Monitoring of septic tank shall include the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow Rate	gpd	Metered ^a	Continuous	Annually

gpd denotes gallons per day.

^a. Flow rate may be metered or estimated based on potable water supply meter readings or other approved method.

Septic tanks shall be inspected and/or pumped at least as frequently as described below. Inspections of sludge and scum depth are not required if the tanks are pumped at least annually.

<u>Parameter</u>	<u>Units</u>	<u>Measurement Type</u>	<u>Inspection/Reporting Frequency</u>
Sludge depth and scum thickness in each compartment of each tank	Feet	Staff Gauge	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually
Effluent filter condition (if equipped, clean as needed)	NA	NA	Annually

NA denotes not applicable.

Septic tanks shall be pumped when any one of the following conditions exists:

1. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment.
2. The scum layer is within 3 inches of the outlet device.
3. The sludge layer is within 8 inches of the outlet device.

If a septic tank is pumped during the year, the pumping report shall be submitted with the annual report. All pumping reports shall be submitted with the next regularly scheduled monitoring report. At a minimum, the record shall include the date, nature of service, service company name, and service company license number.

SUBSURFACE DISPOSAL AREA

Subsurface disposal areas may be configured many different ways (e.g. traditional leach field, pressure-dosed, drip system, mound/at grade, gravel less, etc.). In general, monitoring shall be sufficient to determine if wastewater is evenly applied, the disposal area is not saturated, burrowing animals and/or deep rooted plants are not present, and odors are not present. Inspection of dosing pump controllers, automatic distribution valves, etc. is required to maintain optimum treatment in the disposal area (and any sand or media filter if present). Monitoring shall include, at a minimum, the following:

<u>Constituent</u>	<u>Inspection Frequency</u>	<u>Reporting Frequency</u>
Pump Controllers, Automatic Valves, etc. ^a	Quarterly	Quarterly
Nuisance Odor Condition	Quarterly	Quarterly
Saturated Soil Conditions ^b	Quarterly	Quarterly
Plant Growth ^c	Quarterly	Quarterly
Vectors or Animal Burrowing ^d	Quarterly	Quarterly
Piezometers, depth to water ^e	Monthly	Quarterly

- a. All pump controllers and automatic distribution valves shall be inspected for proper operation as recommended by the manufacturer.
- b. Inspect a disposal area for saturated conditions. If a mound system is used, inspect perimeter base for signs of wastewater seepage or saturated soil conditions.
- c. Shallow-rooted plants are generally desirable, deep-rooted plants such as trees shall be removed as necessary.
- d. Evidence of animals burrowing shall be immediately investigated, and burrowing animal populations controlled as necessary.
- e. Depth to water in piezometers shall be inspected to ensure they are allowing wastewater to infiltrate as designed and/or to monitor seasonal perched groundwater conditions.

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. These records shall be submitted as part of the annual monitoring report.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

During the life of this General Order, the State Water Board or Regional Water Board may require the Discharger to electronically submit monitoring reports using the State Water Board's California Integrated Water Quality System (CIWQS) program Internet web site or alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit monitoring reports, the Discharger shall submit hard copy monitoring reports.

A. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Regional Water Board on the **first day of the second month after the quarter ends** (e.g. the January-March Quarterly Report is due by May 1st). The reports shall bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports shall include:

1. Results of all required monitoring.
2. A comparison of monitoring data to the discharge specifications, applicable effluent limits, disclosure of any violations of the NOA and/or General Order, and an explanation of any violation of those requirements. (Data shall be presented in tabular format.)
3. If requested by staff, copies of laboratory analytical report(s) and chain of custody form(s).

B. Annual Report

Annual Reports shall be submitted to the Regional Water Board by **March 1st following the monitoring year**. The Annual Report shall include the following:

1. Tabular and graphical summaries of all monitoring data collected during the year.
2. An evaluation of the performance of the wastewater treatment facility, including discussion of capacity issues, nuisance conditions, system problems, and a forecast of the flows anticipated in the next year. A flow rate evaluation as described in the General Order (Provision E.2.c) shall also be submitted.

3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order.
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
5. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the monitoring reports shall accompany each report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

The Discharger shall implement the above monitoring program as of the date of this MRP.

Ordered by:

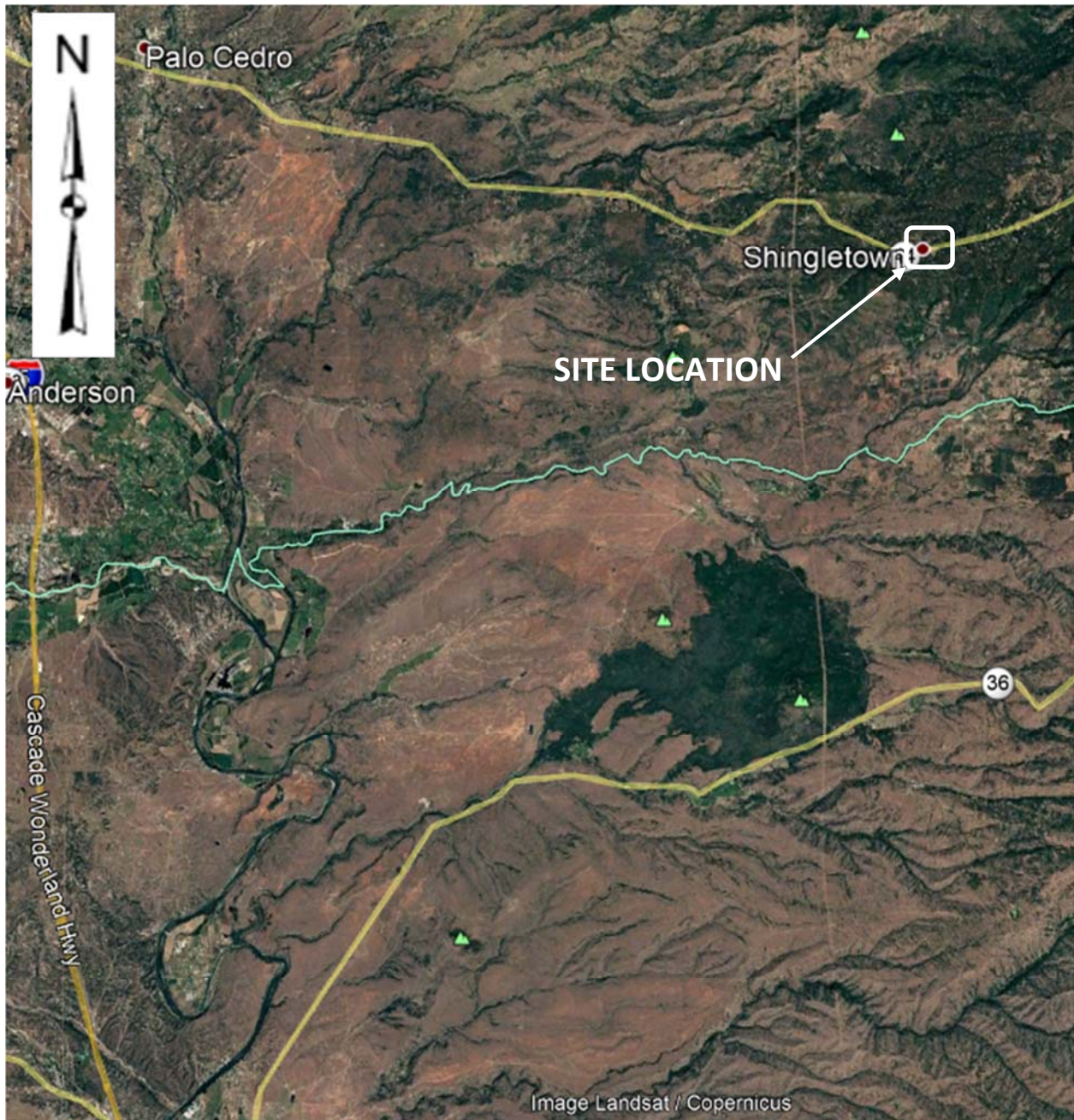
Original signed by Bryan Smith for

PATRICK PULUPA, Executive Officer

25 April 2019

DATE

LOCATION MAP

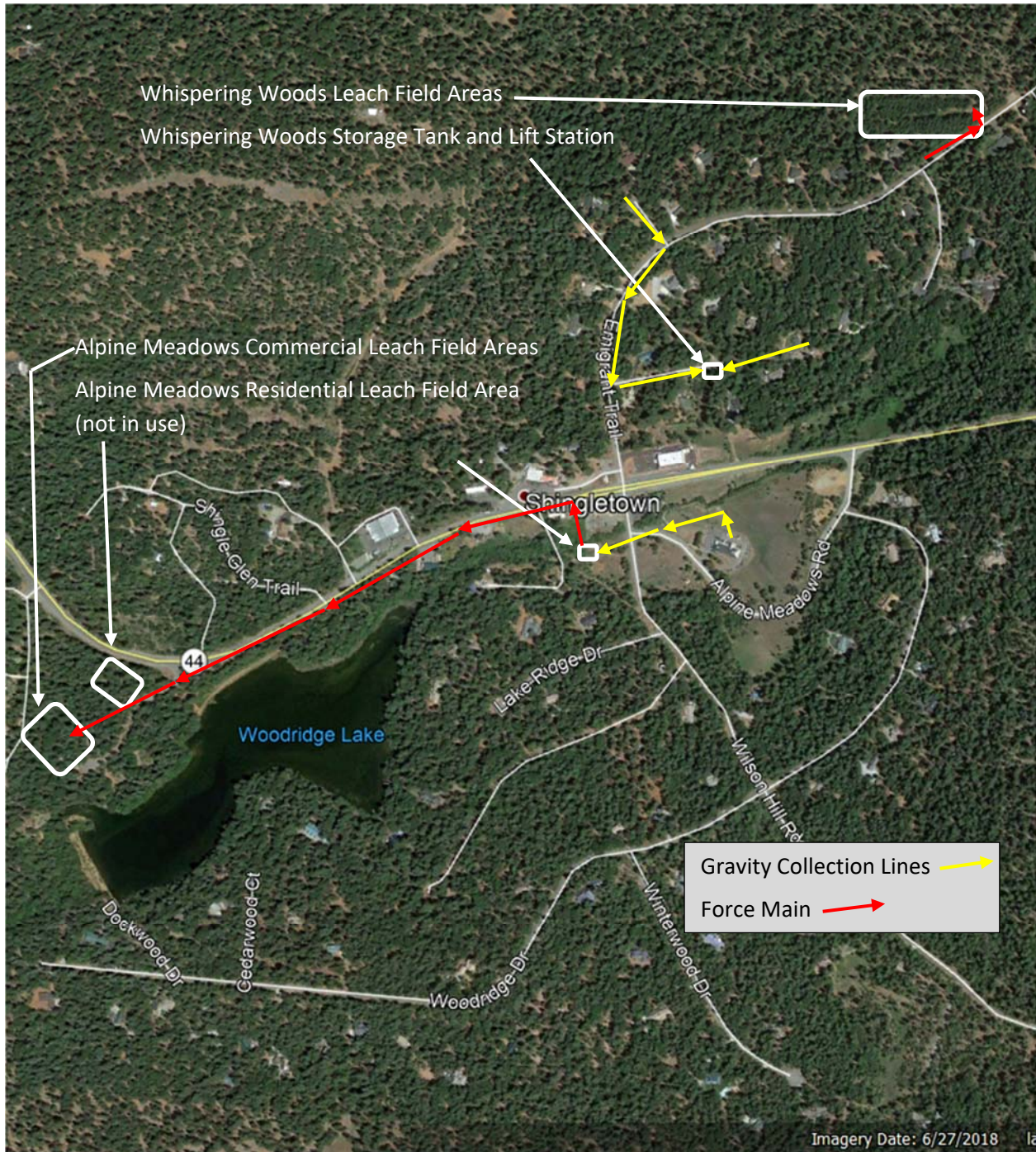


DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2018 GOOGLE
NO SCALE

LOCATION MAP

SHASTA COUNTY SERVICE AREA NO. 13
ALPINE MEADOWS / WHISPERING WOODS
SHASTA COUNTY

FACILITY MAP

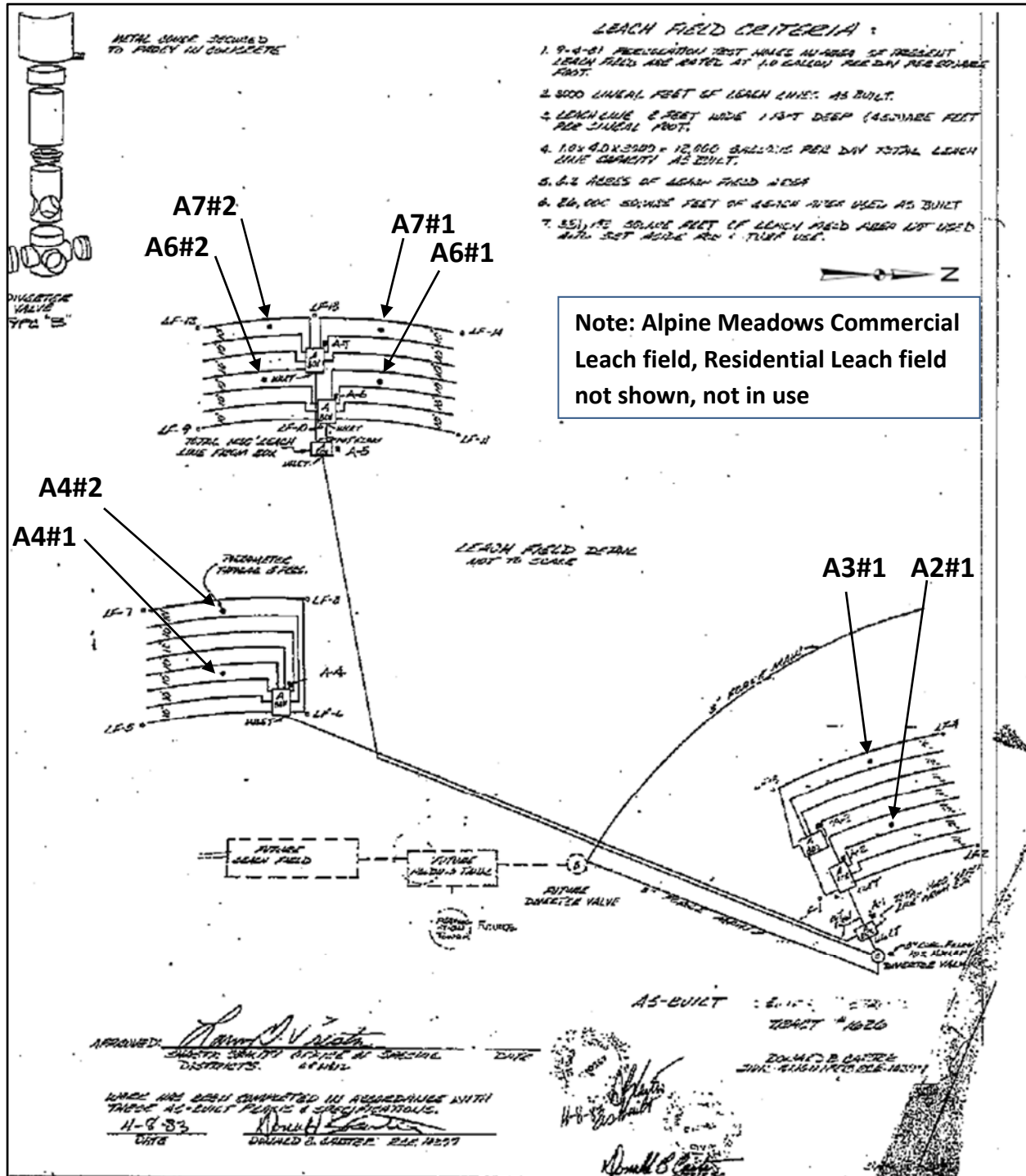


DRAWING REFERENCE:
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MAP DATA: © 2018 GOOGLE
NO SCALE

FACILITY MAP

SHASTA COUNTY SERVICE AREA NO. 13
ALPINE MEADOWS / WHISPERING WOODS
SHASTA COUNTY

ALPINE MEADOWS LEACH FIELD AND PIEZOMETER LOCATION MAP

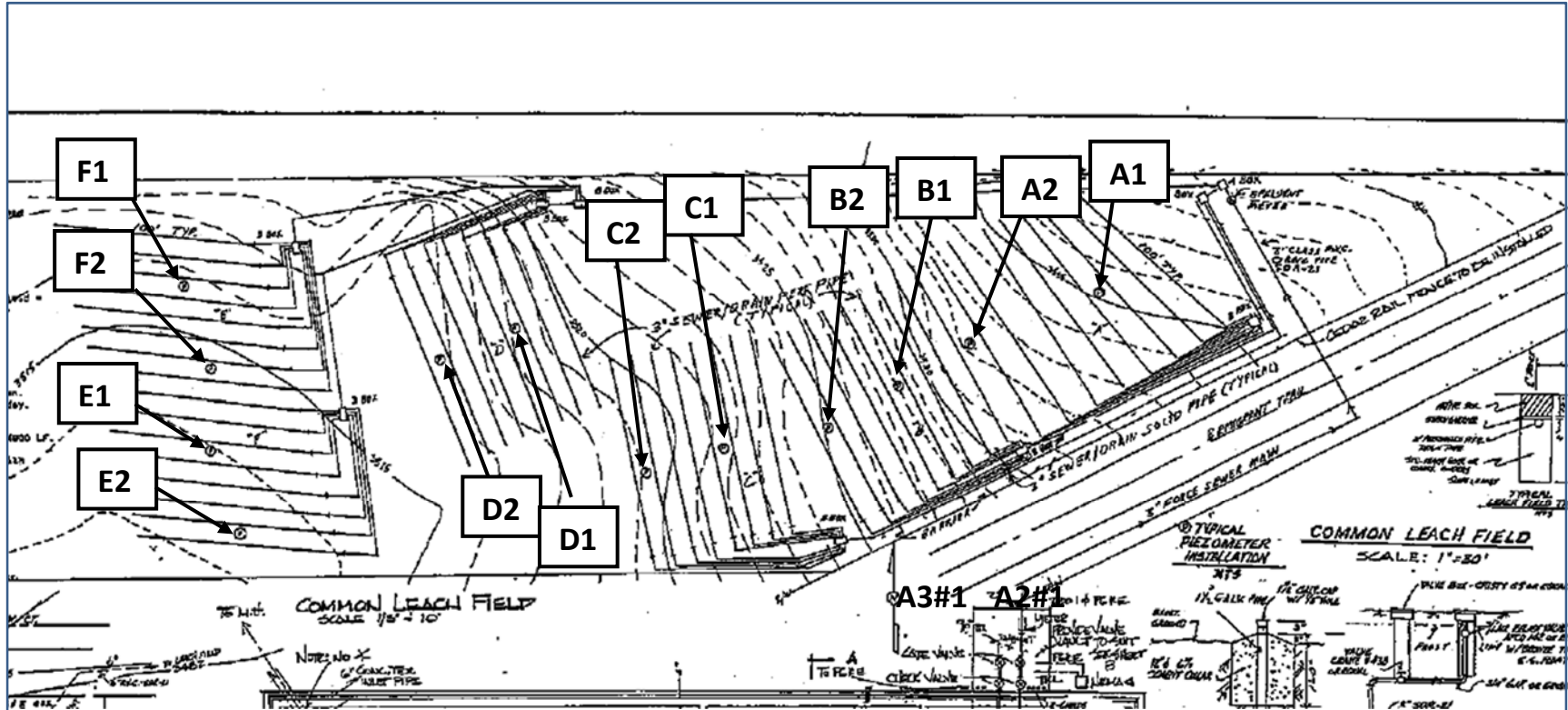


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 MAP DATA: © 2018 GOOGLE
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ALPINE MEADOWS LEACH FIELD
 AND PIEZOMETER LOCATION MAP

SHASTA COUNTY SERVICE AREA NO. 13
 ALPINE MEADOWS / WHISPERING WOODS
 SHASTA COUNTY

WHISPERING WOODS LEACH FIELD AND PIEZOMETER LOCATION MAP



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MAP DATA: © 2018 GOOGLE
NO SCALE

WHISPERING WOODS LEACH FIELD
AND PIEZOMETER LOCATION MAP

SHASTA COUNTY SERVICE AREA NO. 13
ALPINE MEADOWS / WHISPERING WOODS
SHASTA COUNTY