

ZONE 7 BOARD OF DIRECTORS WATER RESOURCES COMMITTEE

DATE: August 29, 2023
TIME: 4:00 p.m.
LOCATION: Boardroom
Zone 7 Administration Building
100 North Canyons Parkway
Livermore, California

Director Figuers
Director Green
Director Palmer

AGENDA

1. Call Meeting to Order
2. Public Comment on Items Not on the Agenda
3. Conceptual Regional Groundwater Development
4. Septic Tank Application for Non-Residential Use at 1114 Greenville Road
5. Verbal Reports
6. Adjournment

DATE: August 29, 2023

TO: Water Resources Committee

FROM: Ken Minn, Groundwater Resources Manager

SUBJECT: Conceptual Regional Groundwater Development

SUMMARY:

This discussion is in support of Strategic Plan Goal A – Reliable Water Supply and Infrastructure and Goal C – Groundwater Management, and to implement Initiative #1 – Establish a diversified water supply plan; Initiative #2 – Evaluate and develop appropriate new water supply and reliability opportunities; and the Initiative #3 – Continue to effectively implement infrastructure projects in the water system Capital Improvement Program (CIP). Note that in considering potential regional options, the Board approved the following principles on May 17, 2023:

1. Input from all retailers
2. No adverse operational impacts to Zone 7 or regional water supply
3. No adverse impacts to water quality
4. No adverse impacts to the PFAs plume
5. Financial equity to Zone 7 and all retailers
6. Schedule that aligns with Zone 7 planning processes

Staff has completed conceptualizing a regional groundwater development plan and cost assessment considering the following:

- The current Well Master Plan's preferred alternative identified installing seven new wells, and four wells are yet to be developed;
- Zone 7's long-term PFAS management strategy comprises monitoring, blending and treating, managing groundwater quality, and diversifying groundwater sources; and
- Zone 7's FY27-FY31 Capital Improvement Plan (CIP) includes \$28.88 million for the development of two municipal wells and 6,000 feet of 24-inch diameter pipeline in the Bernal subbasin.

Staff will present this concept, the potential for the plan to be upsized to include a regional partner and potential timelines.

FUNDING:

No funding is requested at this time.

RECOMMENDED ACTION:

Provide direction to staff.

DATE: August 29, 2023

TO: Water Resources Committee

FROM: Michelle Parent/Ken Minn

SUBJECT: Authorization for Non-Residential Use of Septic System at Topcon Positioning System, Inc, 1114 Greenville Road, (APN 099B-5600-004-25), Case #23-003

SUMMARY:

- This action is in support of Zone 7 Water Agency's (Zone 7) Strategic Plan Goal C - Groundwater Management: Manage and protect the groundwater basin as the State designated Groundwater Sustainability Agency, and to implement Initiative 7: Manage the GSA and implement the groundwater management plan.
- Zone 7's Resolution 1165 prohibits the use of septic systems for commercial or industrial uses unless approved by the Board of Directors.
- Topcon Positioning System, Inc (Topcon) has applied for Zone 7's approval for non-residential use of a septic system, an onsite wastewater treatment system (OWTS), for a heavy equipment testing facility of Topcon manufactured components installed on heavy construction equipment, including Bulldozers, Motor Graders, and Excavator.
- The proposed project is on a currently undeveloped 60-acre parcel located at 1114 Greenville Road in Livermore (APN 099B-5600-004-25). This parcel is situated outside of the Livermore Valley Groundwater Basin and high nitrates areas of concern.
- The proposed land use includes one mobile fuel tank serviced by the vendor. Otherwise, the project does not involve the use, storage, or generation of hazardous materials other than those found in typical households;
- Currently, it is not feasible for this property to connect to the municipal sewer, and the property is not within proximity of the approved sewer extension (Measure P) for the South Livermore Valley Area.
- The proposed use is in compliance with the Zone 7 Wastewater Management Policy (WMP) that allows a maximum wastewater loading of one rural residential equivalence per five acres (1 RRE/5 Acres) when a community sewerage system is not yet available; this project's total wastewater loading is estimated to be 0.21 RRE/5 Acres.

- Based on the board-approved Zone 7 Septic Tank Review Decision Tree, the project meets the approval criteria and is in compliance with Resolution 1165. The approval will include a condition requiring the property to connect to the public sewer when it becomes available.

ATTACHMENTS:

Project Wastewater Loading Worksheet
Zone 7 Septic Tank Approval Decision Tree
Project location map

Project Wastewater Loading Worksheet
Greenville Road, Livermore
(Case # 23-003)

Facility	Qty	Loading Description	Sewage Flow Rate (GPD)	Days per week	Avg GPD	N Conc Mg/L ⁽¹⁾	Annual Nitrogen Loading lbs/yr	Rural Residential Equivalent (RRE)	RRE Prorated per 5 Acres	Max RRE⁽¹⁾
Tocon Product Testing ⁽³⁾	15	employees	15	2	64	90	18	0.53		-
Tocon Product Testing ⁽³⁾	6	employees	15	5	64	90	18	0.53		-
Tocon Product Testing ⁽³⁾	15	patrons	20	2	86	90	24	0.71		-
Tocon Product Testing ⁽³⁾	6	patrons	20	5	86	90	24	0.71		-
Total					300		84	2.47	0.21	12

(1) ACDEH OWTS Manual (2018)

(2) Acorn Onsite, Inc (2023)

(3) No wastewater disposal facilities

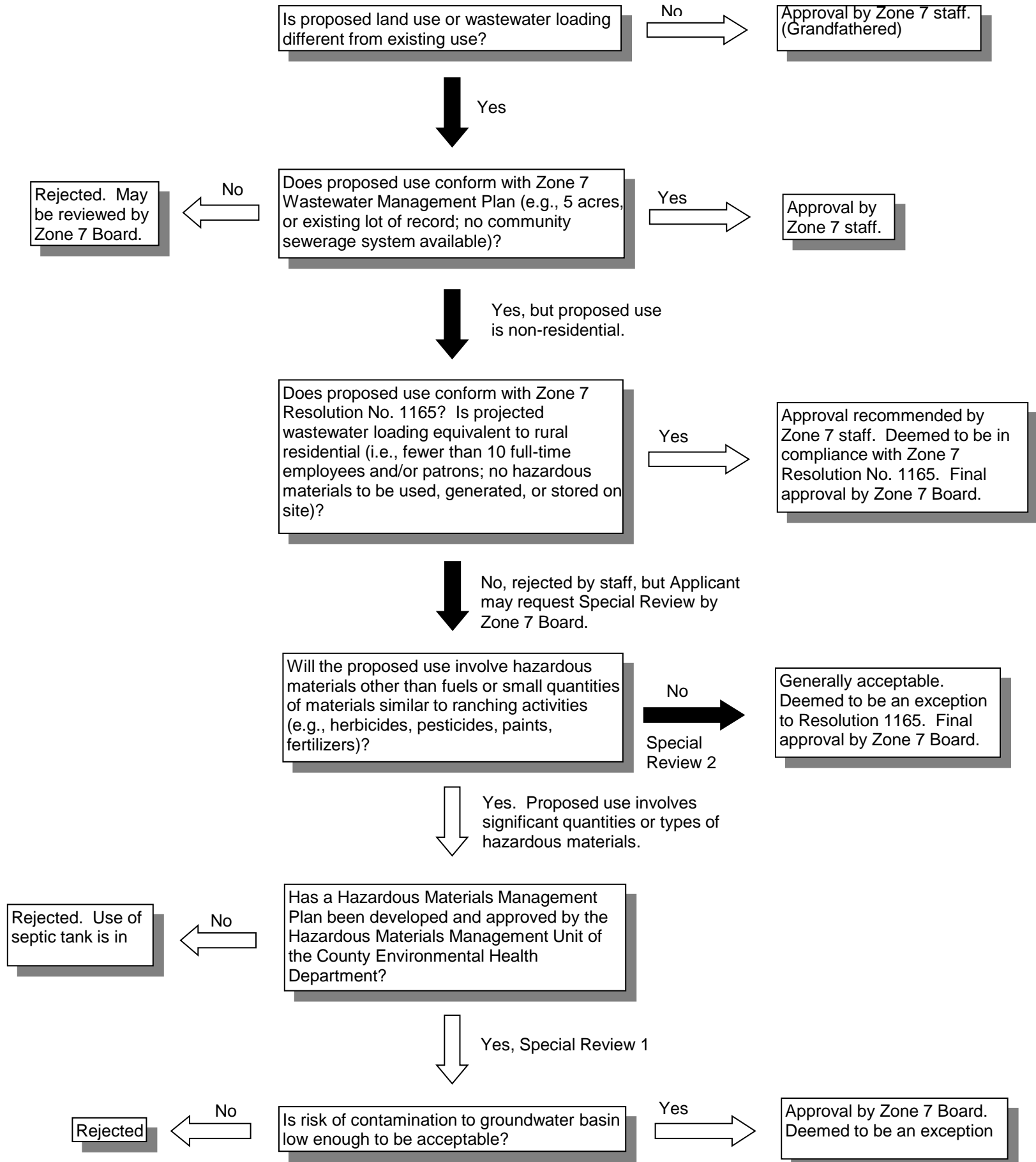
(4) Maximum allowable RRE per year = (60 Acres x 6.8 lbs/Acre) / (34 lbs/year). ACDEH OWTS Manual (2018)

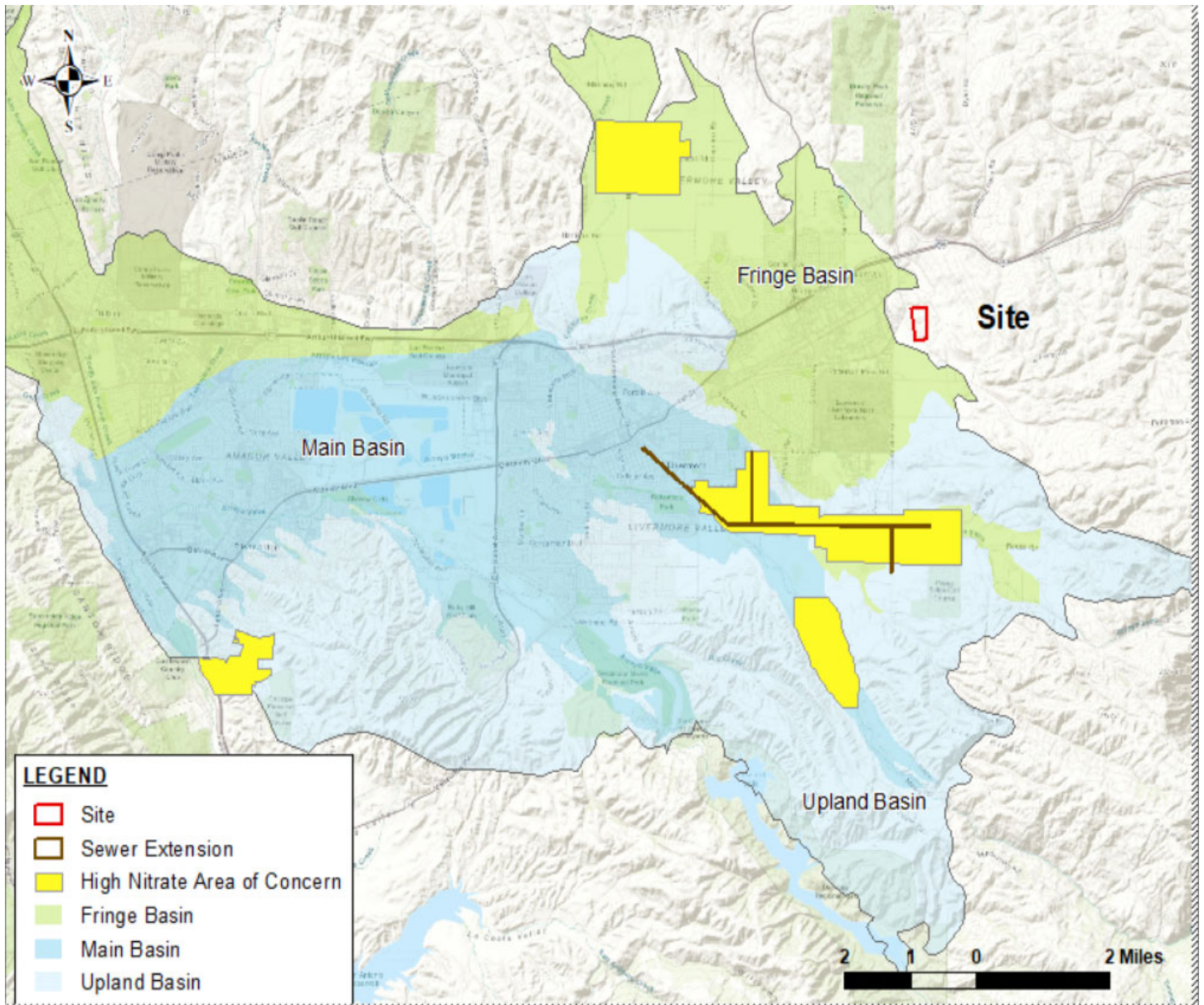
(5) 60 Acre Parcel

Zone 7 Septic Tank Approval Decision Tree

Applicant: Topcon Positioning Systems, Inc.	Case No.: 23-003
Site Address: Greenville Road., Livermore	
Date: August, 8 2023	

(Most septic tank reviews are made when the property owner request the Planning Department for a land use change, rezoning, or parcel split.)





Project Location Map