

From: [Isabella Ford](#)
To: [CITY COUNCIL \(INCL. CMO STAFF\); supplementalcomm@surfcity-hb.org](#)
Subject: Uphold the Planning Commission's approval for the M&O building
Date: Wednesday, April 29, 2026 5:59:05 PM

Dear City Council Members,

Just to put it on record since you don't seem to care...but I ask you please listen to your planning commissioners and do not appeal this project.

Thank you

Isabella Ford
714-308-0660



Pacific Rim EcoSystemic Strategy Advisors

Shaping a Sustainable Future Through Strategic Environmental and Public Health Solutions

Dr. Daniel Barbara, DHSc, CPH, REP, CCPI, CPI
Principal Consultant
Pacific Rim EcoSystemic Strategy Advisors, LLC
2514 Jamacha Rd.
El Cajon, CA 92019
(619) 320-5894

April 28, 2026

VIA ELECTRONIC MAIL AND US Postal Mail
Huntington Beach City Council
2000 Main Street
Huntington Beach, CA 92648


RE: Expert Environmental Opinion Regarding the Validity of the CEQA Notice of Exemption (NOE) – HBCSD Maintenance & Operations Building Project (8750 Dorsett Drive) – CUP No. 23-014; Planning Commission File No. 24-485; Design Review Board Application No. 24-005; and City Planning Record No. PA-2023-0067

Honorable Mayor and Members of the City Council,

Pacific Rim EcoSystemic Strategy Advisors, LLC (Pacific Rim Eco) has been retained by Robert Granger and the concerned residents of Breton Lane to perform an independent professional review of the Huntington Beach City School District's (HBCSD) California Environmental Quality Act (CEQA) determination for the proposed 7,525-square-foot Maintenance & Operations (M&O) Building.

Accompanying this letter is our formal Expert Environmental Opinion & Analysis. Our investigation concludes that the District's Notice of Exemption (NOE) is factually and procedurally invalid. We identified five compounding, disqualifying problems that necessitate a full environmental review:

- **Procedural and Baseline Violations:** The District relies on an unlawful baseline of unpermitted M&O operations and filed its NOE prematurely—prior to a project decision or permit submission—violating CEQA Guidelines Section 15062(a).
- **Misapplication of Class 3 Exemption:** This industrial facility, intended to house heavy machinery and hazardous substances, does not meet the "similar structure" criteria of Class 3 (small stores or offices).
- **Extraordinary "Unusual Circumstances":** The project's 22.5-foot proximity to residences, adjacency to a public park, and location within a cluster of significant environmental sites—including

619.320.5894 Dan - 619.320.5895 Erika 

danbarbara@pacifcrimeco.com or erikavega@pacifcrimeco.com 

www.pacifcrimeco.com 



the Ascon Superfund Site, the Cannery Street Landfill, and the protected Huntington Beach Wetlands—create a "reasonable possibility" of significant effect.

- **Regulatory Vacuum:** The District's incorrect claim of zoning exemption under Government Code §53094 bypasses essential local vetting for noise, traffic, and hazardous materials.
- **Public Health Risks:** Our analysis highlights scientifically evidenced risks to community physical and mental health, exacerbated by the site's shallow seasonal water table and poorly drained soils, which facilitate contaminant migration.

Intent to Present

Please be advised that Pacific Rim Eco will be present at the City Council meeting on May 5, 2026, alongside our clients. We intend to provide expert testimony summarizing these findings for the administrative record with the bounds of whatever times is allocated for this purpose.

Upholding CEQA safeguards now is the responsible path to protecting the health of Huntington Beach residents.

Sincerely,



Dr. Daniel Barbara, DHSc, CPH, REP, CCPI, CPI

Principal Consultant

Pacific Rim EcoSystemic Strategy Advisors, LLC

An SBA-Certified Service-Disabled Veteran-Owned Small Business

Enclosure: Expert Environmental Opinion & Analysis (with Appendices A-E)

From: [Robert Granger](mailto:robert@grangerindependent.com)
To: supplementalcomm@surfcity-hb.org
Subject: File #: 26-279 Appeal of Planning Commission's Action on Conditional Use Permit No. 23-014 (HBCSD Maintenance and Operations Building)
Date: Friday, May 1, 2026 4:19:59 PM
Attachments: [Invalid Claim that M&O is for classroom educational use .pdf](#)

You don't often get email from robert@grangerindependent.com. [Learn why this is important](#)

RE: The Invalid claim by district that this is to be used for educational purposes and is considered classroom use

The argument that the Maintenance and Operations (M&O) building will be used by students for classroom use is entirely invalid because it directly contradicts the District's own published project descriptions, architectural plans, hearing testimonies, and legal building strategies. If the District attempts to make this argument, you can easily defeat it using their own record:

1. The District Explicitly Admitted It Will Not House Students. The District's own website, FAQs, and Development Guides explicitly state that "The M&O facility will not host students". Furthermore, during the Planning Commission hearing, the District's architect, Brian Whitmore, testified on the record that "this particular project does not house students".
2. The Project is Evading the Field Act. The District has publicly admitted that the new M&O building will be built using "local building standards in lieu of Field Act compliance." The Field Act is the stringent California safety code that is legally required for any facility attended by students and teaching staff. Under California law, if a building is not subject to the Field Act, it is officially classified as a non-classroom facility. If the District were to suddenly argue the building is for classroom use, they would be legally forced to comply with the Field Act and submit to a full structural and fire/life safety review by the Division of the State Architect (DSA), a process they intentionally avoided.
3. The State Architect Confirmed It Is Not for School Purposes In an email dated August 22, 2024, the DSA Regional Manager, Ron LaPlante, confirmed in writing that the DSA will not oversee the project's structural safety specifically because "this site is not used for school purposes".
4. The Floor Plans Prove Industrial and Storage Use The official project narrative and architectural plans submitted to the City designate the 7,510 to 7,525-square-foot building strictly for industrial maintenance and storage. The space is explicitly partitioned for woodworking, metalworking, groundskeeping, light mechanic work, a centralized warehouse for maintenance materials, and office space for the 14 M&O staff members . There are no classrooms in the blueprints.
5. It Triggers Mandatory Local Zoning Compliance Because the building is legally and functionally a non-classroom facility, it is subject to the limitations of California Government Code §53094(b). This state code explicitly dictates that a school board cannot exempt itself from city zoning laws when the proposed use is for "nonclassroom facilities, including, but not limited to, warehouses, administrative buildings, and automotive storage and repair buildings".

In summary, the District cannot legally argue the building is for student use without invalidating their entire permitting strategy, triggering mandatory state safety oversight under

the Field Act, and contradicting their own blueprints and public testimonies.

.oto



Robert Granger

Insurance Agent & Broker,

Granger Independent Insurance Services

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www.grangerindependent.com

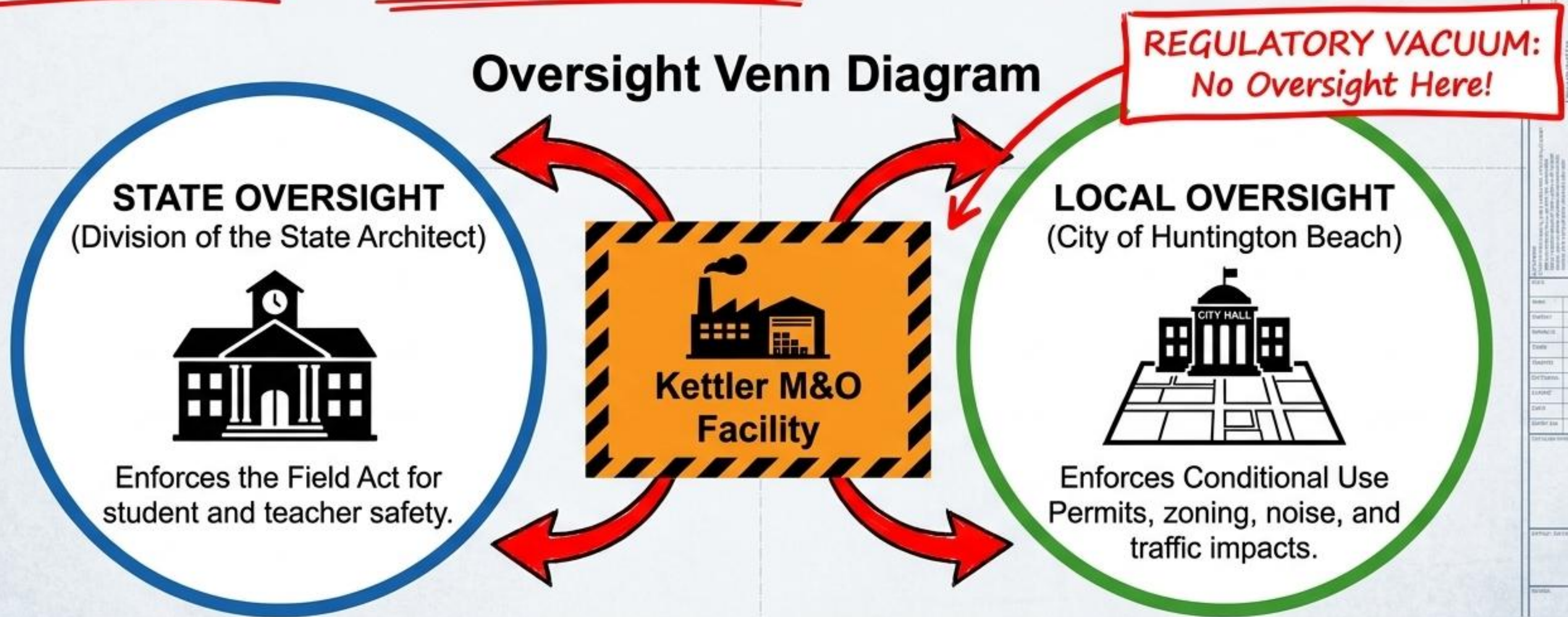
robert@grangerindependent.com

[20902 Brookhurst St. Ste 208, Huntington Beach, CA 92646](#)



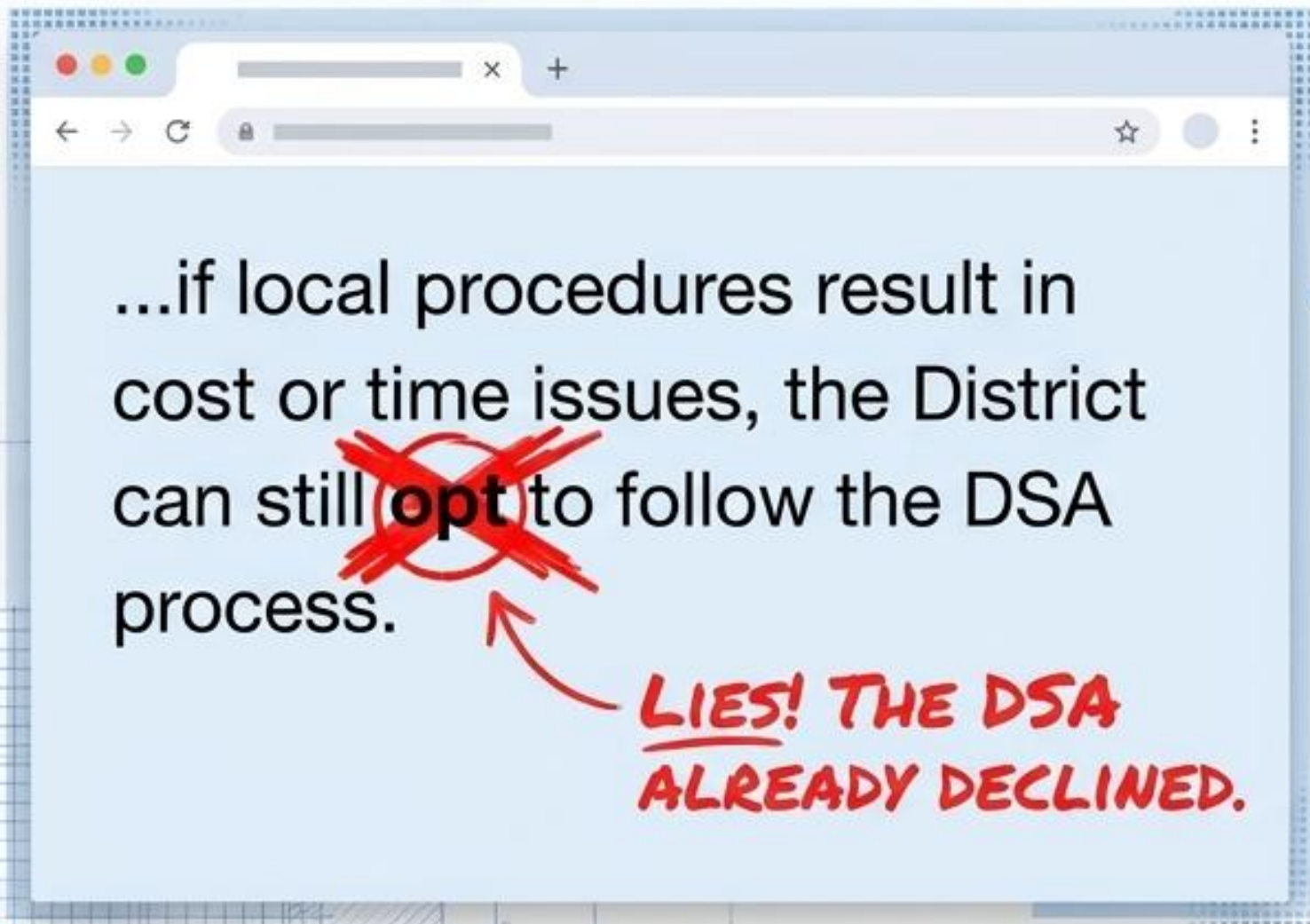
Creating the Regulatory Vacuum

The District claims the State won't oversee the project because it has no students, yet claims the City shouldn't oversee it because it is on District land. The result is an industrial project with zero independent safety, environmental, or zoning oversight.



Evidence Extraction: The False Option

District PR: A Fabricated Choice



The Evidence: The State Architect's Refusal

“ Since this site is not used for school purposes, they only need to submit it to DSA for access compliance... **DSA has no other other authority** for work at this property. DSA does not issue conditional use permits nor enforce local zoning ordinances.”

– Ron LaPlante, DSA Regional Manager
(August 22, 2024)

The District cannot “choose” a regulator that has formally declined jurisdiction.

The Limits of District Immunity

California Government Code §53094 allows school districts to bypass local zoning only for educational spaces. For non-classroom facilities like warehouses and automotive storage, school districts must submit to City jurisdiction and Conditional Use Permits.



**Classroom Facilities
= Exempt from
Local Zoning** ✓

**ACTION REQUIRED:
DEMAND CITY PERMITS!**

NO IMMUNITY!



**Non-Classroom Facilities
= Must Comply with
City Zoning**

COMPLY!



**INVESTIGATION CONFIRMED:
THE SHIELD IS BROKEN!**

Grandfathering an Illegal Baseline

An unpermitted, illegal operation cannot be used as a "legal baseline" to bypass an environmental impact report.

2018



The Unpermitted Move!
M&O operations displaced from Dwyer Middle School. Operations begin at Kettler without a City Conditional Use Permit.

2022



The Encampment
Maintenance tools, materials, and heavy equipment are relocated to shipping containers in the Kettler parking lot.
Still no City permits!

2024



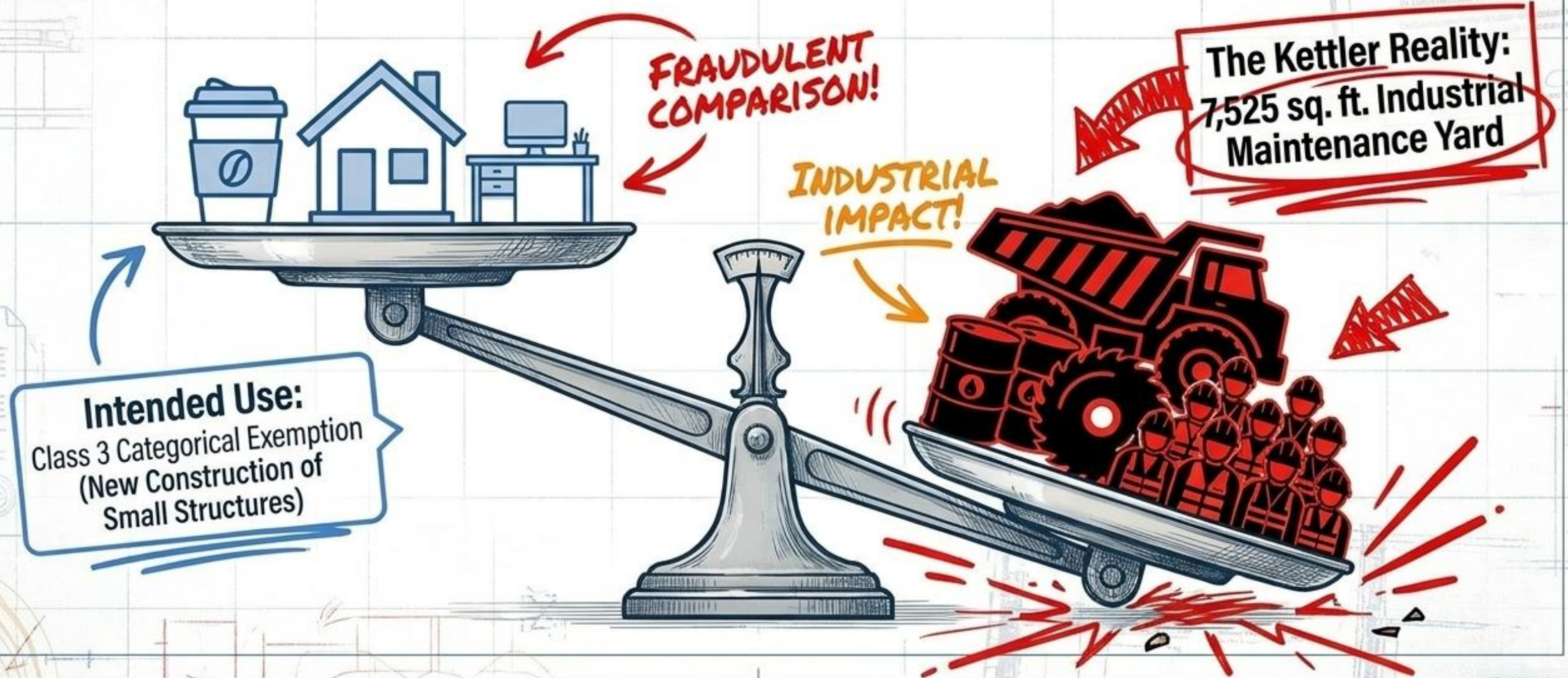
The False Baseline!
The District files a CEQA exemption claiming the new 7,500 sq ft building causes "negligible or no expansion of existing use."



Annotated Blueprint

Misapplying the “Small Structure” Loophole

The District is using an environmental exemption meant for small retail stores. The nature of industrial maintenance (noise, traffic, hazardous waste) triggers CEQA, regardless of the building's square footage.



Triggering "Unusual Circumstances"

CEQA Guideline §15300.2(c) voids any categorical exemption if there is a reasonable possibility of significant effect due to "unusual circumstances".



Placing an industrial facility storing fuel and deploying heavy machinery 22 feet from residential bedrooms is an unusual circumstance demanding a full Initial Study.

The Claim vs. Reality Matrix

Oversight Issue	The District's Claim	The Legal Reality
State Oversight	We can opt to use the DSA if needed.	DSA explicitly refused jurisdiction (Aug 2024).
City Zoning	Exempt from City rules under Gov Code §53094.	§53094 mandates City compliance for non-classroom warehouses.
Environmental Impact	Exempt from CEQA because "use is not expanding."	The existing use is unpermitted; industrial facilities trigger §15300.2 exceptions.

A Procedural Distraction

A lapsed **environmental challenge window** does not grant the District immunity to permanently ignore City Zoning and GC §53094.



NOT A
FREE PASS!

DISTRICT'S
EXCUSE!

The CEQA Statute of Limitations

The District claims the **35-day window** to challenge their environmental exemption has **expired**.

GC §53094
APPLIES
NOW!

EVERY.
SINGLE.
DAY!

COMMUNITY
NOT SILENCED!

The Zoning Violation

Operating an industrial facility without a **City Conditional Use Permit** is a **continuous, daily violation** of local code.

ONGOING
ILLEGALITY!

INVESTIGATE & C NotebookLM



Annotated Blueprint

Encroachment on City Authority

By allowing the HBCSD to operate in a regulatory vacuum, the City is establishing a dangerous precedent. If the State confirms they will not oversee this project, the City **must** assert its authority.

CITY'S DUTY
IGNORED!

COMMUNITY
AT RISK!

WHERE IS
OVERSIGHT?

CITY'S DUTY
IGNORED!

- The Planning Commission failed to enforce Gov Code §53094.
- Accepting a self-certified CEQA exemption built on an illegal baseline sets a precedent for all future commercial developments.
- Residents are left without environmental, safety, or zoning protections.

Restoring Accountability



City Council Action Required
Official High-Priority Memo



Overturn the Planning Commission Decision

Reject the approval of CUP No. 23-014 based on procedural errors and misapplication of state code.



Assert Jurisdiction

Issue a formal determination that the M&O facility is a non-classroom structure legally bound to Huntington Beach zoning requirements.



Mandate Environmental Review

Reject the Class 3 Categorical Exemption due to "Unusual Circumstances" and require a full Initial Study / Mitigated Negative Declaration.

Unusual
circumstance to
exemption with
relator*

Reject the approval of
CUP No. 23-014 based
on procedural base errors
and misapplication of
state code.

The regulatory vacuum ends with the City Council.

From: [H Meyers](#)
To: supplementalcomm@surfcity-hb.org
Subject: Agenda Item #14 - Appeal of Planning Commission Action Conditional Use Permit No. 23-014 (HBCSD Maintenance and Operations Building)
Date: Sunday, May 3, 2026 3:39:04 PM

I am a long-time resident of Huntington Beach. I urge you not to support an appeal of the conditional use permit No. 23-014 allowing the Huntington Beach City School District to build a maintenance building on its property at Dorsett Drive. None of the objections to the project are based in fact. The HBCSD has complied with all requirements and already operates from this site but in an outdoor parking lot. Moving the activity indoors will reduce noise, and there will be no increase in traffic, since the activity is already occurring at that location. Alternative locations have been explored, the project has completed its CEQA review and been approved at every level in the City, meeting all city requirements, including zoning. Sound insulation and a block wall will separate the structure from neighboring properties.

Again, I urge you to allow this project to go forward.

Hildy Meyers
Huntington Beach

From: [Celeste Rybicki](#)
To: supplementalcomm@surfcity-hb.org; [Gruel, Andrew](#); [McKeon, Casey](#); [CITY COUNCIL \(INCL. CMO STAFF\)](#)
Subject: RE: Agenda Item#14 HBCSD Maintenance and Operation Building
Date: Sunday, May 3, 2026 4:45:07 PM

Hello,

It feels very frustrating to have to write this email asking our city council to please move forward with the previously approved Maintenance and Operations Building that would so greatly benefit our community. It is especially frustrating that this is being fought and delayed by someone currently running a campaign on "putting Huntington Beach residents, small businesses, and community values ahead of outside interests." HB residents deserve well-maintained schools and the safety and wellbeing of our children is certainly integral to our community values. I have children at HBCSD schools and who play soccer with AYSO on the fields that need this building desperately. I know that this project has already undergone multiple City review steps and has already been found to meet all the applicable zoning, building, and City requirements, so PLEASE, for our kids, let it proceed already!

Thanks,
Celeste Rybicki
17 year HB resident and concerned parent of 3

From: buzz.mccord
To: supplementalcomm@surfcity-hb.org
Subject: Supplemental Communication re: Agenda Item 25: Fluoridation
Date: Sunday, May 3, 2026 8:51:17 PM

To the Huntington Beach City Council:

I am trying to understand the Council's new skepticism toward fluoridation. Not because skepticism is bad. Good science depends on skepticism. But science also depends on evidence, measurement, risk comparison and honesty about tradeoffs.

That is what seems to be missing from Council thought.

Science and technology are not abstractions. They are the basis of our prosperity, our health and our safety. They give us clean drinking water, antibiotics, vaccines, streaming sports, weather forecasts, earthquake engineering, cancer treatment, ED drugs, airplanes, smart phones. And dental care.

Take dental X-rays.

Every Council member has almost certainly had dental X-rays. So have your spouses, your parents and your children. Why? Because dentists use them to find cavities, infection, bone loss, impacted teeth and other problems that cannot always be seen with the naked eye.

But X-rays are not magic. They are electromagnetic radiation, the same broad family as visible light and ultraviolet radiation. In a beach city, we understand UV radiation very well. Around here, "SPF" is as common in our beach patois as "dude." We teach our children to use sunscreen because UV light carries enough energy to damage skin.

And yet X-rays are far more energetic than UV. UV wavelengths are measured in hundreds of nanometers. Dental X-ray wavelengths are often fractions of a nanometer. That means X-ray photons can carry thousands of times more energy than the UV photons we so passionately block with sunscreen. SPF.

So why do we accept dental X-rays?

Because the benefit-versus-risk question has been studied carefully. Because radiation dose is measured and governmentally regulated. Because dentists do not use X-rays randomly. Because standards exist. Because science has done the hard work of separating fear from evidence.

Guess what? That is also how fluoridation has been evaluated.

Community water fluoridation is supported by the American Dental Association, the nation's largest dental association, representing about 152,000 dentist members. The ADA states that community water fluoridation at recommended levels is safe, effective and reduces tooth decay. The CDC says fluoridation reduces cavities by about 25% in children and adults. The recommended level is 0.7 milligrams per liter, a level chosen specifically to preserve benefit while limiting risk.

That does not mean there are no questions. High fluoride exposure deserves scrutiny. Public-health policy should always be reviewed as new evidence develops.

But that is not what this Council appears to be doing.

This Council has already worked to ban masks against contagion. It has worked to ban or lock down library books. Now it wants to block fluoridation to recommended levels, a mainstream public-health measure grounded in decades of science.

So here is the obvious question:

Given the proven penetrating energy of X-rays, is the Council also preparing to ban dental X-rays in Huntington Beach?

If not, why not?

If your answer is that dental X-rays are useful, regulated, measured and supported by scientific evidence, then you have already accepted the principle. Public health does not ask whether something sounds scary in isolation. It asks whether the measured benefit outweighs the measured risk. A business principle and a life principle.

That is the standard for X-rays.

That is the standard for sunscreen.

That is the standard for electric power.

And that should be the standard for fluoridation.

Huntington Beach should not govern by suspicion of science. We are supposedly a modern city. Our health, safety and prosperity depend on scientific literacy, not political theater dressed up as concern.

The Council should follow the evidence, not fear of the word "fluoride." Or a handful of vocalists.

Buzz McCord

Biophysicist, inventor and career specialist in the use of electromagnetic radiation for medical applications. HB resident but not qualified to be a dude.

From: [Daniel Barbara](#)
To: supplementalcomm@surfcity-hb.org
Cc: [Robert Granger](#); [Erika Vega](#)
Subject: Information Submission RE 5/5/2026 City Council Meeting Agenda File # 26-279
Date: Sunday, May 3, 2026 5:53:53 PM
Attachments: [Environmental Opinion - HBCSD - Maintenance Facility.pdf](#)

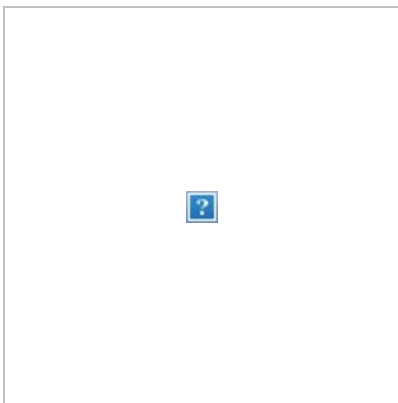
You don't often get email from danbarbara@pacificrimeco.com. [Learn why this is important](#)

Good evening. Please find attached and below (in the form a link to large secure files), an information submission consisting of our (Pacific Rim Eco's) written Environmental Opinion regarding File # 26-279 before the City Council as an appeal on May 5, 2026. The Environmental Opinion is attached to this email, and the remaining appendices are included at the following link due to size. They have been mailed to your office via the USPS in paper form as well, and will provide nine written copies of the Opinion (minus appendices) in person on Tuesday as requested. This environmental investigation and opinion was commissioned by concerned residents of adjacent neighborhoods to the proposed HBCSD maintenance facility. We look forward to sharing briefly with the Council and answering any questions you might have prior to making this important decision.

[Link to MS Office Opinion & Appendices](#)



(Dr.) Daniel Bárbara, DHSc, CPH, REP
Partner & Principal Consultant
Pacific Rim EcoSystemic Strategy Advisors
619.320.5894



Environmental, Infrastructure & Public Health Consulting

From: [Laura Costelloe](#)
To: [CITY COUNCIL \(INCL. CMO STAFF\)](#); supplementalcomm@surfcity-hb.org
Subject: Support for HBCSD M&O Building
Date: Sunday, May 3, 2026 10:14:06 PM

You don't often get email from lolorocks32@yahoo.com. [Learn why this is important](#)

Dear Honorable Mayor Casey McKeon and City Council Members,

As a long-time advocate and volunteer for our Huntington Beach City School District and a taxpayer committed to fiscal accountability, I am writing to urge the Council to deny the appeal and uphold the approval of the proposed Maintenance and Operations (M&O) building.

This project is a common-sense solution to a long-standing need. After years of operating behind the district office and paying nearly \$1 million per year in lease costs—a staggering waste of taxpayer funds—the District has presented a plan that is fiscally responsible and legally sound. There is no increase in traffic or sound considering they've been there already for years.

The District has already committed \$1.2 million to OVSD to house our busses and for future maintenance and operations expenses. This was to alleviate the stress of the Sowers neighborhoods that didn't want the busses on the Sowers site. The district is always committed to working with the community and stakeholders. Thank you OVSD!

In regards to the M&O building, moving it forward 10 feet as the appellant has requested not only negates the

CEQA but creates an unsafe environment behind the building where undesirables can take refuge and do drugs. Daily, the maintenance workers clean up needles and trash behind the appellants house on the pathway/easement to the softballs fields. The district maintains the area as good stewards to the community.

As a local Realtor, I can say this will not drop property values or negate the appellants home owners insurance, like he's previously stated. He claims the heavy equipment will negate his insurance. There is no heavy equipment, large projects are conducted on school sites. He also backs to the softballs fields where they run heavy equipment twice a week.

The district site is quiet, unlike the many neighborhood school sites we have that have daily student drop offs and pick ups, sports and events. This is what creates the culture and community of our HB neighborhoods. The hustle and bustle; the sounds of our children playing on the playgrounds isn't a negative thing, it was part of the original design of Huntington Beach. All our neighborhood school sites actually increase homeowner values.

The High Cost of Denial If the City denies this project, it doesn't stop the building; it simply makes it more expensive for the public. The District would likely be forced to move the project through the Division of the State Architect (DSA). This shift would:

- **Inflate Costs:** Force the District to abandon cost-saving prefabricated plans for custom builds, costing

taxpayers hundreds of thousands of dollars in extra fees and additional time.

- **Bypass Local Input:** Shift jurisdiction away from the City to the State, removing local oversight.

Legal and Procedural Consistency: The City has no valid legal cause to deny this project. It is not an "industrial" use in a residential zone; it is a support facility for a school district that has operated on this site for years. Most school districts do not require a CUP for such sites because they are permitted uses.

To deny this project now, the Council would have to declare that the Zoning Administrator and a 6-1 majority of the Planning Commission were "wrong" in their interpretation of City Law. Such a reversal, despite the project meeting every objective City standard and passing CEQA review, would be the definition of an arbitrary and capricious decision, potentially exposing the City to unnecessary legal risk. Do all our school districts in the city of Huntington Beach have CUPs for their M&O sites? I doubt that is a rabbit hole we want to go down?

A Commitment to Our Staff and Students: Our HBCSD M&O staff has waited years for a safe, indoor place to house their tools and equipment. They deserve that! Moving their existing operations indoors reduces noise and improves neighborhood aesthetics.

Every dollar saved on leases and construction premiums is a dollar that stays in the classroom for our 4,500+ students. I urge you to stand with our

students, our workers, and our taxpayers. Please deny this appeal and do what's right for our children!

I believe you will do the right thing.

Most Sincerely,

Laura Costelloe

(714)277-9330

Sent from my iPhone

From: [Buffie Channel](#)
To: [CITY COUNCIL \(INCL. CMO STAFF\); supplementalcomm@surfcity-hb.org](#)
Subject: Agenda Item 14/26-279
Date: Monday, May 4, 2026 3:50:25 AM

To City Council:

Regarding Agenda item 14/ 26-279.

I am writing to encourage you to uphold the Planning Commission's (6-1) approval of the HBCSD Maintenance and Operations building. I question the reasoning behind this agenda item that has provided a solution to a long-time problem and has the support of the VAST majority of citizens (except one citizen). How is that fiscally responsible?

Why would we continue to pay nearly \$1 million per year in lease costs?

Why is one man stopping this for one citizen in a deal that has taken years to construct and approve?

There will be no impact in traffic or noise because they are already there operating.

The Zoning Administrator and a 6-1 majority of the Planning Commission supports this. Why is one council member giving one citizen this kind of attention and power? It doesn't add up.

Deny the appeal - and support the approval of the Maintenance and Operations (M&O) building.

This would cause thousands of our school kids to lose because of this wasteful appeal. Support our students, our workers and let's use our tax dollars wisely and use basic common sense.

Sincerely,

Buffie Channel
-36 year resident and tax payer

From: [Robert Granger](#)
To: Burns, Pat; [CITY COUNCIL \(INCL. CMO STAFF\)](#); supplementalcomm@surfcity-hb.org
Cc: trazo@yahoo.com; Mark Currie; Cheryl DeMarco, AIA; Lauramarieirving@gmail.com; rhodge4828@gmail.com; connie9426@gmail.com; joannahazlerigg@gmail.com; Phi Pham; donnado8@verizon.net; dianepphoto922@gmail.com; Lauriejevans@live.com; kath.home@verizon.net; joaniemac@verizon.net; waterbug26@aol.com; eferraro4@gmail.com; frankfranciscus71@gmail.com; pmsurf@aol.com; Kip Thulin; dhenryhb@gmail.com; Debbie Duda; Sharon Gonterman; Vince Brantley; ileibowitz@socal.rr.com; Catherine Elles; fran.leibowitz@socal.rr.com; travelpost100@yahoo.com; 2dkkjones@gmail.com; maerbacher@aol.com; gveleki@gmail.com; pminko@icloud.com; taveuni42@verizon.net; hunnybch@aol.com; gigamba@verizon.net; Craig Wendt; konstruct89@yahoo.com; armorales5@yahoo.com; Briian H; dora.apodaca@csulb.edu; tonyriccobono@netscape.net; Becky Granger; Robert Granger; Lucy Granger; rochellecarpenter57@yahoo.com; Evan B. Sorensen; Heather Sorensen; nancybuchoz@yahoo.com; Susan Schaben
Subject: Zoning Administrator Abuse: File #: 26-279 Appeal of Planning Commission's Action on Conditional Use Permit No. 23-014 (HBCSD Maintenance and Operations Building)
Date: Monday, May 4, 2026 8:34:51 AM

We agree with you Pat,

“The Zoning Administrator, one person, has the Authority to approve CUP’s and Variances. This is not very common in other cities,” Burns wrote in a memo to his colleagues. “

The planning department should have invalidated the HBCSD CEQA Notice of Exemption from the get-go. By looking the other way at an obvious CEQA violation, it cleared the way for a review process of one. One person, the zoning administrator. Who knew the zoning administrator could look the other way when it comes to an industrial maintenance yard in a residential neighborhood? Let alone the district's CEQA consultants' professional credibility in her false and misleading testimony.

The city council needs to reject the CEQA NOE and start over with an open process that is subject to community involvement and complies with applicable CEQA guidelines.

Secondly, why is the city believing the districts' "experts" that it's too late to invalidate their CEQA Notice of Exemption?

Even though the Huntington Beach City School District (HBCSD) filed their Notice of Exemption (NOE) on November 1, 2023, attempting to run out the 35-day clock, their process was fundamentally flawed both procedurally and factually.

Here is why it is not too late to challenge their CEQA exemption:

1. Procedural Invalidity: The NOE Was Filed Prematurely Under CEQA Guidelines Section 15062(a), a public agency may only file an NOE *after* it has made a formal decision to carry out or approve a project. Furthermore, CEQA Guideline 15004(c) dictates that the CEQA process must be completed before the agency makes a decision.

- **The Flaw: The District filed and recorded the NOE in November 2023, but did not formally resubmit its Conditional Use Permit (CUP) application to the City**

until April 10, 2024.

- **The Legal Argument:** By filing the NOE months before formalizing the project decision and submitting permit requests, the District triggered the 35-day window unlawfully. You can argue that an agency cannot "piecemeal" the environmental review by filing an exemption before a defined project action is actually submitted to the City for approval. Because the filing was procedurally invalid, the 35-day statute limit does not legally apply.

2. Inaccurate Project Description Restores the 180-Day Window The 35-day statute of limitations only provides immunity if the NOE honestly and accurately describes the project.

The Precedent: In the 2023 case *Committee to Relocate Marilyn v. City of Palm Springs*, the Court of Appeal ruled that if an NOE inaccurately describes a project, it deprives the public of a fair chance to evaluate it. The court determined that in such instances, the 35-day limit is invalidated and the standard 180-day statute of limitations is reinstated.

- **The Legal Argument:** The District's NOE claimed the project involved "negligible or no expansion of existing or former use". However, the District established this "existing" baseline on operations that have been unpermitted and illegal since 2018 or 2019. By failing to disclose that the "existing use" was an unpermitted industrial yard, the NOE's project description was factually inaccurate and misleading, legally opening the door to reinstate the 180-day timeline.

3. "Equitable Tolling" Due to a Misleading Baseline Statutes of limitations are designed to protect honest administrative mistakes, not deliberate misrepresentations.

- **The Legal Argument:** Because the District deliberately withheld the fact that its baseline was an unpermitted operation lacking a City CUP, this could be considered a "fraud on the record". When a lead agency achieves a CEQA exemption by misrepresenting the legality of its baseline, the statute of limitations may be subject to "equitable tolling". This means the "clock" can be paused or reset because the public was fundamentally misled by the original notice.

4. Zoning Violations Are Independent of CEQA Deadlines Finally, even if a judge were to uphold the expired CEQA deadline, the statute of limitations on CEQA does not grant the District immunity from ongoing zoning violations. CEQA (environmental review) and zoning (land use permits) are separate regulatory mechanisms. Under California Government Code §53094, the District is in continuous violation of the law by operating a non-classroom industrial facility in a residential zone without a City CUP. This ongoing zoning violation is not subject to a 35-day CEQA window.

[How the HBCSD Cheated the CEQA Process PowerPoint](#)

[YouTube - How the HBCSD Cheated the CEQA Process](#)

[City Recommends Approving Plan based upon CEQA 15303 NOE](#)

[Slides plus notes](#)

I'm here if you need help understanding a simple yet complex issue. Bottom line, the CEQA is invalid based upon a false baseline. Simply read the only environmental report ever conducted for this project by Dr. Daniel Barbara. The report speaks for itself.



Robert Granger
714-404-7140

From: [Robert Granger](#)
To: supplementalcomm@surfcity-hb.org; [CITY COUNCIL \(INCL. CMO STAFF\)](#)
Subject: M&O building and operations conflict with Land Use Element Goals
Date: Monday, May 4, 2026 2:46:31 PM

The proposed Maintenance & Operations (M&O) yard violates several key goals and policies outlined in the City of Huntington Beach General Plan (Adopted October 2, 2017), Land Use Element.

Here is how the project conflicts with the specific guidelines:

1. Incompatible Architecture and "Surf City" Identity (Goal LU-2 & Policy LU-2B)

The Guideline: Goal LU-2 and Policy LU-2(B) require that new development preserves and enhances a "distinct Surf City identity" and that building architecture must be "context-sensitive, creative, complementary of the city's beach culture, and compatible with surrounding development and public spaces."

The Conflict: During the Planning Commission hearing, now council member Don Kennedy pointed out the absurdity of the City claiming the project meets this standard, stating that "nothing speaks Surf City identity more than a prefab manufactured steel metal building in a coastal zone... it's ridiculous."

2. Disproportionate Scale and Elevation (Policy LU-1D & Goal LU-2B)

The Guideline: Policy LU-1(D) dictates that new projects must be of "compatible proportion, scale, and character to complement adjoining uses."

The Conflict: Residents argue the building's scale is highly incompatible with the adjacent homes on Breton Lane. Because those residential properties sit at an elevation approximately 7 to 10 feet lower than the proposed building pad, the 17.5-foot-tall M&O building will actually tower 25 to 30 feet higher than the ground level of the neighboring homes

3. Encroachment of Incompatible Land Uses (Policy LU-2D)

The Guideline: Policy LU-2(D) strictly directs the City to "maintain and protect residential neighborhoods by avoiding encroachment of incompatible land uses."

The Conflict: Opponents argue that placing an industrial maintenance yard—which inherently involves early morning noise, heavy machinery, diesel trucks, and hazardous materials—just 22.5 feet from single-family residential property lines is a textbook example of an incompatible land use encroaching on a quiet neighborhood

4. Inconsistency with Community Park Integration (Goal LU-1)

The Guideline: Goal LU-1 requires that new development be coordinated to ensure the land use pattern is "consistent with the overall goals and needs of the community."

The Conflict: Neighbors note in their formal opposition letters that the project is inconsistent

with the neighboring city park development plan. Rather than fostering community connectivity, the District's plan to build a continuous block wall along the western perimeter will wall off the city-owned corridor and walkway that connects the neighborhood to Edison Park, failing to integrate pedestrian and micro-mobility access

Furthermore, residents argue that this very tight 10-foot-wide hidden corridor will create an attractive nuisance for criminal activity out of the view of police. And last of all, the higher fire risk associated with the building, chemicals, and fuels being stored so close to neighboring single-family homes. Are the insurance policy cancellations coming for these residents?

Robert Granger
21232 Breton Lane
Huntington Beach 92646



From: [Robert Granger](#)
To: [Vigliotta, Mike](#)
Cc: [supplementalcomm@surfcity-hb.org](#); [CITY COUNCIL \(INCL. CMO STAFF\)](#); [Mark Currie](#); [Cheryl DeMarco, AIA](#); [Lauramarieirving@gmail.com](#); [rhodge4828@gmail.com](#); [connie9426@gmail.com](#); [joannhazelrigg@gmail.com](#); [Phi Pham](#); [donnado8@verizon.net](#); [dianepphoto922@gmail.com](#); [Lauriejevans@live.com](#); [kath.home@verizon.net](#); [joaniemac@verizon.net](#); [waterbug26@aol.com](#); [eferraro4@gmail.com](#); [frankfranciscus71@gmail.com](#); [pmsurf@aol.com](#); [Kip Thulin](#); [dhenryhb@gmail.com](#); [Debbie Duda](#); [Sharon Gonterman](#); [Vince Brantley](#); [ileibowitz@socal.rr.com](#); [Catherine Elles](#); [fran.leibowitz@socal.rr.com](#); [travelpost100@yahoo.com](#); [2dkkjones@gmail.com](#); [maerbacher@aol.com](#); [pminko@icloud.com](#); [taveuni42@verizon.net](#); [hunnybch@aol.com](#); [gigamba@verizon.net](#); [Craig Wendt](#); [konstruct89@yahoo.com](#); [armorales5@yahoo.com](#); [Briian H](#); [dora.apodaca@csulb.edu](#); [tonyriccobono@netscape.net](#); [Becky Granger](#); [Robert Granger](#); [Lucy Granger](#); [rochellecarpenter57@yahoo.com](#); [Evan B. Sorensen](#); [Heather Sorensen](#); [nancybuchoz@yahoo.com](#); [Susan Schaben](#); [rtrazo@yahoo.com](#); [Mike Chiavetta](#)
Subject: RE: Municipal Liability and Homeowner Insurance Cancellation Risks Stemming from CUP No. 23-014 (HBCSD M&O Building)
Date: Monday, May 4, 2026 3:20:17 PM
Attachments: [image001.png](#)
[Orbital_Risk.pdf](#)

RE: Municipal Liability and Homeowner Insurance Cancellation Risks Stemming from CUP No. 23-014 (HBCSD M&O Building)

Dear Mr. Vigliotta,

Thank you for confirming that the items brought to your attention about CEQA will be vetted during the public hearing process during the appeal of this matter.

One more thing to advise the city council.

I am writing to formally alert your office to a severe and unmitigated financial risk facing the residents of the Kettler community should the City Council uphold the Planning Commission's approval of Conditional Use Permit No. 23-014 for the Huntington Beach City School District (HBCSD) Maintenance & Operations (M&O) Building.

Beyond the existing California Environmental Quality Act (CEQA) and zoning violations previously brought to the City's attention, placing an industrial maintenance yard a mere 22.5 feet from single-family residential property lines exposes these homeowners to an immediate threat of severe property insurance rate hikes and policy cancellations due to modern, algorithm-driven insurance underwriting practices. The home insurance industry is currently undergoing a "Geospatial Revolution," shifting away from static annual contracts to a model of "Continuous Underwriting" driven by orbital data and scalable computer vision AI. Because of this, premium pricing and risk exposure adjust dynamically in real-time, responding instantly to environmental changes and property modifications detected from orbit. In this new landscape, "to be insurable is to be visible," and an AI algorithm is constantly scoring properties from the sky.

If the City allows the HBCSD to construct a 7,525-square-foot industrial facility—which will house diesel trucks, heavy machinery, wood and metal shops, and hazardous materials—just 22.5 feet from residential backyards, the City will be directly responsible for introducing a massive, algorithmic "Exposure" risk to the adjacent homes.

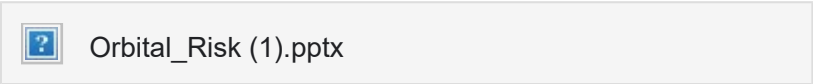
Modern insurance AI constantly evaluates a property's "Hazard Proximity" by quantifying external threats, such as encroaching fire risks or hazards near the parcel boundary. When the orbital telemetry scans Breton Lane and identifies a newly constructed industrial structure housing combustible materials and industrial operations abutting the residential fence line, the AI will automatically flag the residential properties as high-risk.

Consequently, the residents of Huntington Beach will be subjected to the "Consumer Shock" currently disrupting the insurance market: surprise non-renewal notices or massive premium hikes based on aerial imagery.

By illegally bypassing a formal CEQA Initial Study under a flawed "Small Structures" exemption and failing to evaluate the true environmental and hazard impacts of this project, the City is allowing a dangerous condition to be built that will directly trigger insurance cancellations for its citizens. We urge you to advise the City Council of the significant municipal liability the City assumes by forcing this unvetted industrial proximity onto residents. The City must overturn the approval of CUP No. 23-014 and mandate a full Environmental Impact Report (EIR) to properly evaluate the external hazards and resulting financial damages (diminution of value and loss of insurability) this project will inflict on the neighborhood.

I have a very short PowerPoint presentation on this new era of microinsurance underwriting. As an insurance professional for the last 33 years, I've seen a thing or two. Insurance companies are using AI to eliminate as many California risks as fast as they can. I receive frantic calls several times per week, "I've been canceled, and I don't know why".

Please advise the council that this increase in financial exposure/risk is being placed on our neighborhood. This is not an unpredictable natural disaster; it's just a disaster waiting to happen.







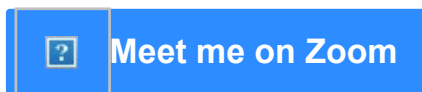
Kind regards,



Robert Granger

Independent Insurance Broker

-  (949) 4-CHOICE or (949) 424-6423
-  robert@grangerindependent.com
-  WWW.GRANGERINDEPENDENT.COM
-  20902 Brookhurst St. Suite 208, Huntington Beach, CA 92646



On Mon, May 4, 2026 at 10:05 AM Vigliotta, Mike <MVigliotta@surfcity-hb.org> wrote:

Hi Mr. Granger,

Thank you for the email and I apologize for the delay in responding. The City Attorney's Office can not provide legal advice to the public, however, the information you provided will be vetted during the public hearing process during the appeal of this matter.



Michael J. Vigliotta

CITY ATTORNEY

OFFICE OF THE CITY ATTORNEY

2000 Main Street, Fourth Floor

Huntington Beach, CA 92648

(714) 536-5538

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From: Robert Granger <robert@grangerindependent.com>

Sent: Sunday, May 3, 2026 11:33 AM

To: Vigliotta, Mike <MVigliotta@surfcity-hb.org>; supplementalcomm@surfcity-hb.org; CITY COUNCIL (INCL. CMO STAFF) <city.council@surfcity-hb.org>

Subject: Re: Request for Legal Clarification on CEQA Responsible Agency Duties – HBCSD Maintenance & Operations Building (CUP No. 23-014) Set for City Council Hearing on May 5, 2026

You don't often get email from robert@grangerindependent.com. [Learn why this is important](#)

There are some very difficult legal hurdles to overcome should the city decide to agree with the HBCSD determination that this project is exempt from an environmental review.

The attached PowerPoint and this video, which you can watch on YouTube, explain

the legal hurdles.

[How the HBCSD Cheated the CEQA Process](#)

Kind regards,



Robert Granger

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On Tue, Apr 28, 2026 at 6:43 PM Robert Granger <robert@grangerindependent.com> wrote:

RE: Request for Legal Clarification on CEQA Responsible Agency Duties – HBCSD Maintenance & Operations Building (CUP No. 23-014)

Set for City Council Hearing on May 5, 2026

Dear Mr. Vigliotta,

We need your help! On behalf of the neighbors surrounding the Kettler Education Center to request your formal legal advice and clarification regarding the position taken by the Huntington Beach Planning Department on Conditional Use Permit (CUP) No. 23-014. Specifically, we are seeking an explanation of the City's legal obligations as a "Responsible Agency" under the California Environmental Quality Act (CEQA) and why the Planning Department accepted the Huntington Beach City School District's (HBCSD) Notice of Exemption (NOE) as valid without conducting its own separate, independent CEQA determination. Please read the environmental report prepared by Dr. Daneil Barbara that is attached to this email.

Background: The HBCSD is seeking a CUP to construct a 7,525-square-foot industrial Maintenance and Operations (M&O) Building 22.5 feet from residential property lines at the Kettler site. Acting as the Lead Agency, the District filed a CEQA NOE on November 1, 2023, claiming a Class 3 (Small Structures) Categorical Exemption. The District's exemption rests on the premise that the project merely moves "existing" operations indoors. However, the District relocated its M&O operations to this site around 2018 or 2019 and has operated this maintenance yard ever since without the required City Conditional Use Permit.

Questionable Procedural Tactics and Evasion of Public Scrutiny

The District appears to have employed a highly questionable procedural tactic to intentionally evade public scrutiny and legal challenges by manipulating the CEQA statute of limitations. Specifically, the District officially recorded its Notice of Exemption (NOE) with the County of Orange on November 1, 2023. By filing this NOE, the District triggered a very brief 35-day statute of limitations for anyone seeking to file a legal challenge to its environmental determination. The District then deliberately let this 35-day window quietly expire before advancing the project with the City. The Conditional Use Permit (CUP) application and plans were not resubmitted to the City of Huntington Beach Planning Department until April 10, 2024, and the application was not deemed complete by the City until May 7, 2024. Furthermore, the District did not hold a Community Input Meeting to actually notify the public and neighboring residents about the project's design and impacts until May 6, 2024—more than six months after the NOE was recorded. This calculated timeline demonstrates that the District intentionally let the legal window to challenge the NOE expire long before they formally notified the affected neighbors that the project was moving forward.

The City's Duty as a Responsible Agency:

Because the City of Huntington Beach holds discretionary authority over the approval of the Conditional Use Permit, the City acts as a "Responsible Agency" under CEQA. Under CEQA guidelines, a Responsible Agency is required to comply with CEQA and "must independently review and approve the CEQA document, and not rely automatically on the Lead Agency's judgments". The guidelines further state that a Responsible Agency complies with CEQA "by considering the EIR or negative declaration prepared by the Lead Agency and by reaching its own conclusions on whether and how to approve the project involved".

Furthermore, during the July 23, 2024, Planning Commission hearing regarding the appeal of this project, a City official explicitly stated on the record that the Commission "has to make its own CEQA determination... before it acts on the project".

Here is the pertinent part from the planning commission video of that meeting.

[Here is the link to the exact point of this testimony](#)

"Madalyn Welch: That's correct. The school district served as the lead agency.

Madalyn Welch: The agency prepared the notice of exemption document.

Ian Adam: And with what's the city's role to review that? If it does, the city review it to confirm those findings or at least weigh in, or would if they had a disagreement with that process?

HB Employee: Yes. The Commission has to make its own CEQA determination before it approves, but before it acts on the project."

Questions for the City Attorney:

Given this clear legal framework, we respectfully request your legal opinion on the following questions:

1. Why did the Planning Department accept the District's NOE at face value? If a Responsible Agency must not "rely automatically on the Lead Agency's judgments", why did the City Planning Department fail to question the District's use of an unpermitted, illegal operation as a valid CEQA "baseline" to claim there is no expansion of use?
2. Did the City fail to conduct an independent CEQA evaluation? CEQA guidelines stipulate that if a Responsible Agency believes the Lead Agency's document is inadequate, it has the option to bring a legal challenge against the document, assume the role of Lead Agency, or waive its objections .
3. Did the City explicitly waive its objections to the NOE, or did the Planning Department simply fail to conduct the independent review required by law before the Zoning Administrator approved the CUP on June 19, 2024?
4. How does the City justify ignoring "Unusual Circumstances"? Under CEQA Guidelines Section 15300.2(c), a categorical exemption cannot be used if there is a reasonable possibility of a significant environmental effect due to "unusual circumstances". Placing an industrial maintenance yard that houses heavy machinery and hazardous materials just 22.5 feet from single-family homes is clearly an unusual circumstance .
5. Why did the City not conduct its own initial study to evaluate these unmitigated noise and hazard impacts before approving the CUP?

The community relies on the City of Huntington Beach to protect our neighborhoods through proper zoning and environmental oversight. By accepting a flawed NOE for an unpermitted industrial facility, we believe the City has sidestepped its legal duties as a Responsible Agency under CEQA.

The city council needs your guidance on this issue. It is our position that the HBCSD is not exempt from an environmental review, wherever they decide to

build this non-classroom facility.

We look forward to your timely legal clarification on this matter as we prepare for the final appeal before the City Council.

Sincerely,



Robert Granger
Insurance Agent & Broker,
Granger Independent Insurance Services

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[20902 Brookhurst St. Ste 208, Huntington Beach, CA 92646](#)





ORBITAL PATH: INCLINED

The Sky Is Watching

The Geospatial Revolution in Home Insurance

ORBITAL PATH: INCLINED



SIGNAL STR: 98%

SIGNAL STR: 96%

DATA FEED: ACTIVE

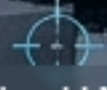
TRGT: 34°83'88.2"N 118°14'36.4"W

ALT: 482 KM RES: 0.3 M

SCAN ID: GEO-ZNS-801A

SIGNAL STR: 98%

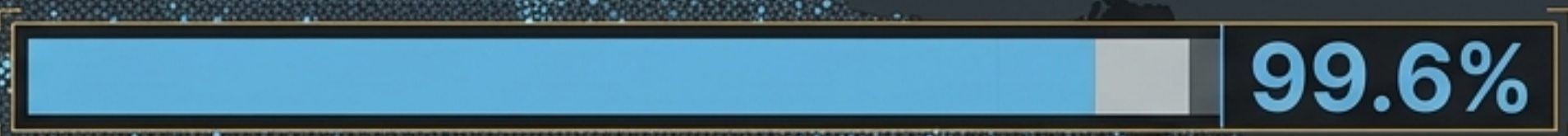
DATA FEED: ACTIVE



NotebookLM

The 99.6% Reality

Industry-funded consortiums and third-party vendors have already photographed, mapped, and scored 99.6% of American homes from the air.



Metrie calls
99.6%

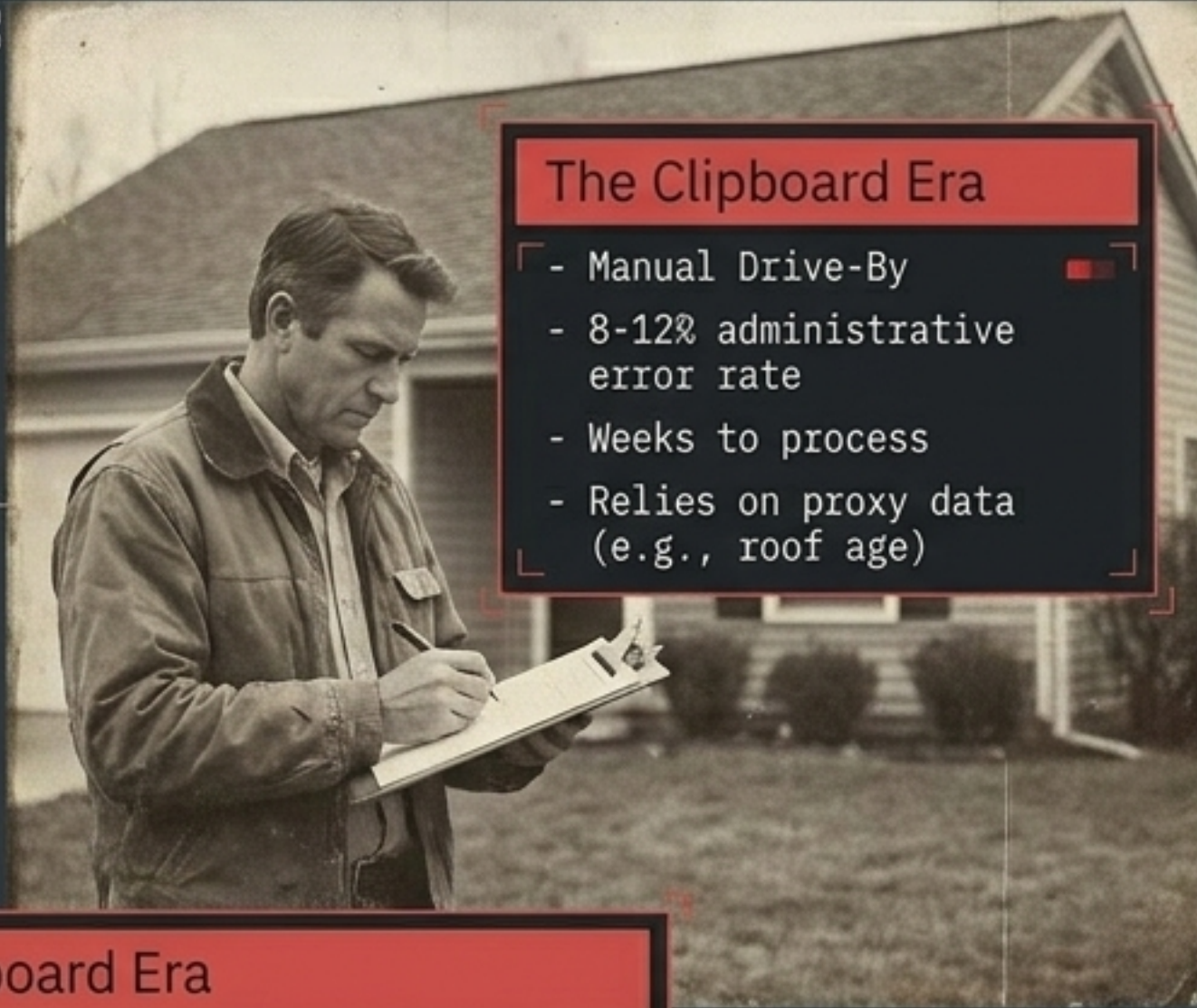
Key Insight: For nearly every property, a digital twin exists—constantly updated, tagged with risk attributes, and scored by algorithms, often without the homeowner's knowledge.

METREC |
PRECISION |

Metric calls
99.8%

The End of the Clipboard

LAT 28.9073 N
LON 77.0039 W



The Clipboard Era

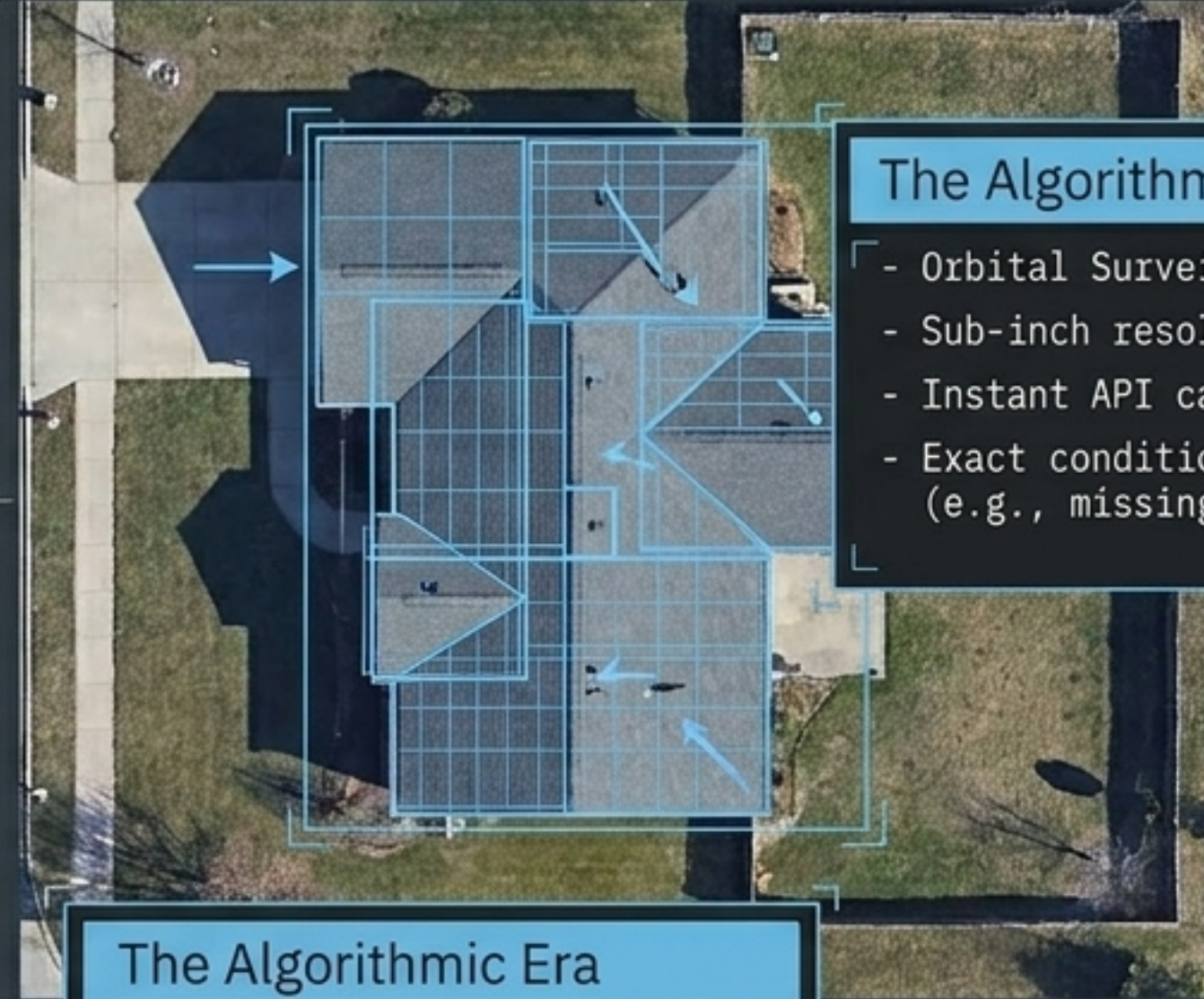
- Manual Drive-By
- 8-12% administrative error rate
- Weeks to process
- Relies on proxy data (e.g., roof age)

The Clipboard Era

- Manual Drive-By
- 8-12% administrative error rate
- Weeks to process
- Relies on proxy data (e.g., roof age)

LAT 38.9072 N
LON 77.8369 W

METRIC
PRECISION



The Algorithmic Era

- Orbital Surveillance
- Sub-inch resolution
- Instant API calls
- Exact condition data (e.g., missing shingles)

The Algorithmic Era

- Orbital Surveillance
- Sub-inch resolution
- Instant API calls
- Exact condition data (e.g., missing shingles)

4. DURATION

The Drivers of the Aerial Shift

Wecize calls
99.8%

LAT 28.9073 N
LOK 77.9037 W



FEEDBACK LOOP ENGAGED

Climate Volatility

Exponentially rising weather losses.

U.S. roof claims reached nearly **\$31 billion** in 2024, a **30% increase** since 2022.



Data Accessibility

The plummeting cost of commercial orbital data and the rise of scalable computer vision AI.

Operational Friction

Skyrocketing costs and logistical bottlenecks of deploying thousands of human adjusters for in-person inspections.

0.508
972 N | LON 77.0367 W

FEEDBACK LOOP ENGAGED
SYSTEM STATUS: OPTIMAL
SYSTEM STATUS: OPTIMAL

ORBITAL DATA STREAM ACTIVE

4 DACTOLN

The Stratified Eye

LAT 28.9073 N
LON 79.9037 W

Metric call
99.0%



Commercial Satellites
300-1,200 km
Global Reach / Rapid Tasking

0.550
879 N | LON 77.8455 W



Stratospheric Balloons
60,000 ft (15-45 km)

FEEDBACK LOOP ENGAGED

Persistent Regional Surveillance



Fixed-Wing Aircraft
10,000-15,000 ft

13.500
622 N | LON 77.8455 W

Portfolio Refresh / Metro Scanning

0.588
LAT N | LON 77.0067 W



Drones / UAS
< 400 ft

FEEDBACK LOOP ENGAGED
SYSTEM STATUS: OPERATIONAL
SENSOR STATUS: OPERATIONAL

ORBITAL DATA STREAM ACTIVE

Micro-Precision / Post-Claim

QUADRICON

Recibe calla
59.8%

Modalities of Observation

Modality	Altitude	Ground Sample Distance (GSD)	Primary Insurance Use Case	Strategic Advantage
Satellites 	300-1200 km	30cm-50cm	Regional monitoring & Post-CAT	Broadest coverage
Balloons 	15-45 km	10cm-20cm	Live CAT loitering	Continuous area surveillance
Aircraft 	10k-15k ft	5.5cm-15cm	Underwriting & Renewal	High detail & 3D oblique views
Drones 	< 400 ft	< 2.5cm	Specific Claim Verification (SIU)	Unrivaled sub-inch clarity

FPEORACK LOOP SNOAGEO
SVSTER STATOS- 8PYENAL
S2CTER STATDS: OPT3RAL

ORBITAL DATA STREAM ACTIVE

← DACTEN

Beyond the Visible Spectrum

Meciar calla
99.0%

Optical / Visible



Structural geometry & visible defects.

Multispectral



Detects hidden moisture in roofing and health of surrounding vegetation.

Synthetic Aperture Radar (SAR)



Microwave imaging that pierces through heavy cloud cover and wildfire smoke for 24/7 observation.

FPEORACK LOOP #A0AEE0
SV6TER ST4T06- SPVENAL
S2CTER ST4T06: OPT3RAC

ORBITAL DATA STREAM ACTIVE

← UACRTN

From Pixels to Property Intelligence

Advanced Computer Vision models (like Mask R-CNN) don't just see a house—they perform instance segmentation.

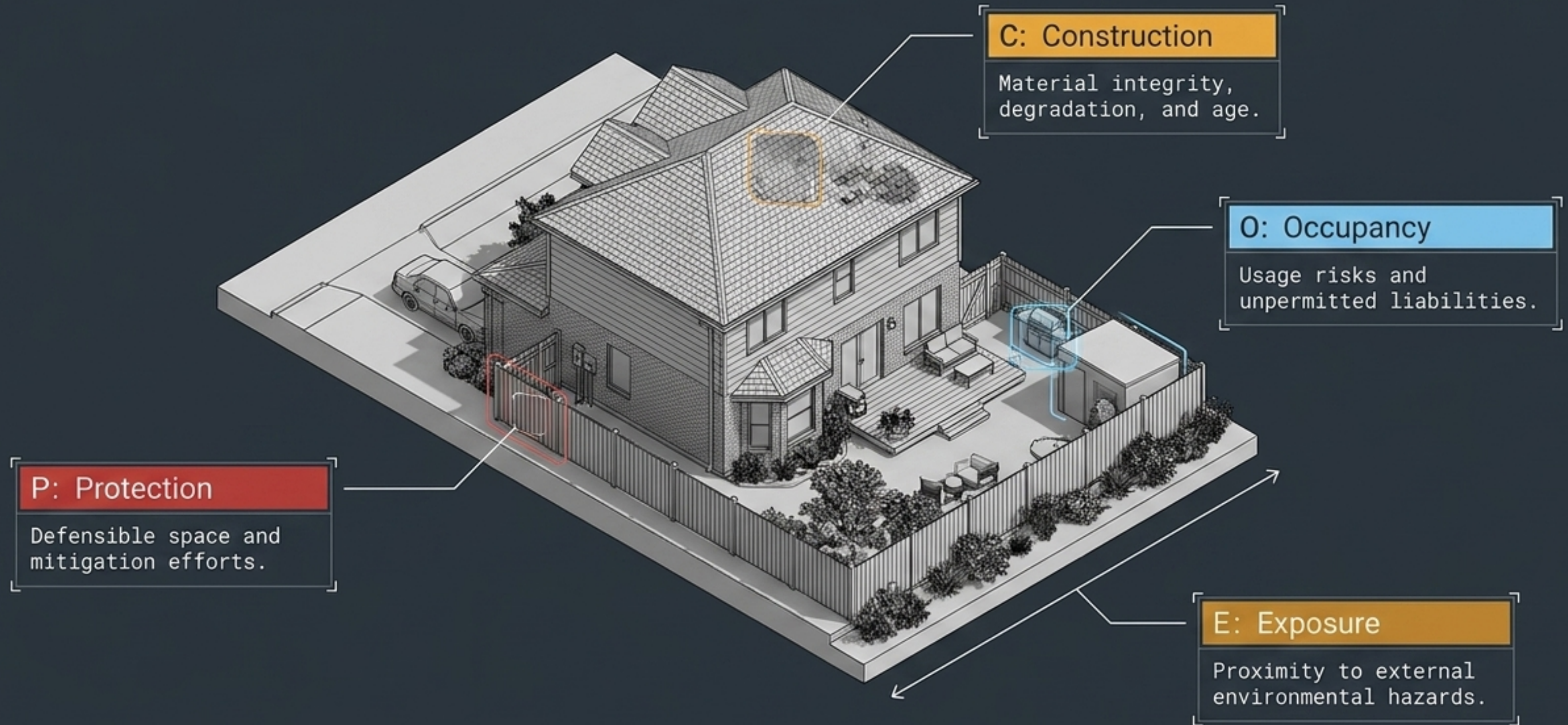


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{
  "roof_area": "1850_sqft",
  "driveway_material": "concrete",
  "driveway_material": "concrete",
  "risk_score": "BT",
  "risk_score": "0.82",
  "risk_accura": "100",
  "extornn_denght": "",
  "risk_score": "0.89",
  "risk_score": "0.82"
}
```

DATA METRICS

- Achieves ~79.8% Intersection over Union (IoU) accuracy for roof segmentation.
- Extracts over 130+ structured risk attributes in milliseconds.

Modernizing the COPE Framework



Construction: The Roof is King

40% of all property claims are roof-related.

Mecidr cdlla
99 18x



Missing Shingles:
High probability of imminent water intrusion.

Biofilm / Algae:
Indicates moisture retention and premature material aging.

Ponding Water:
Flags structural sagging and membrane failure.

Tarp Presence:
Immediate flag for existing, unresolved damage.

Occupancy: The Hunt for Hidden Liability

LAT 30.1016 N | LDK 77-4305 W

NeclAr calls
93 18%



Unreported Additions

Highlights an unpermitted secondary structure (shed/carport) built too close to the main house.



High-Risk Attractive Nuisances

Highlights an unfenced swimming pool and a backyard trampoline.

AI cross-references visual data with municipal permit records to instantly identify unauthorized, uninsured risks.

LAT 23.281 N | LDK 17-6004 W

Exposure & Protection: Measuring the Threat

AI quantification of external fire, vegetation, and environmental risks.



Defensible Space



Wildfire risk can be reduced by 76% when vegetation is removed within 10 feet of a property.

Tree Overhang Ratio



The AI calculates the exact percentage of the roof covered by branches, flagging physical impact hazards and fire bridges.

Hazard Proximity

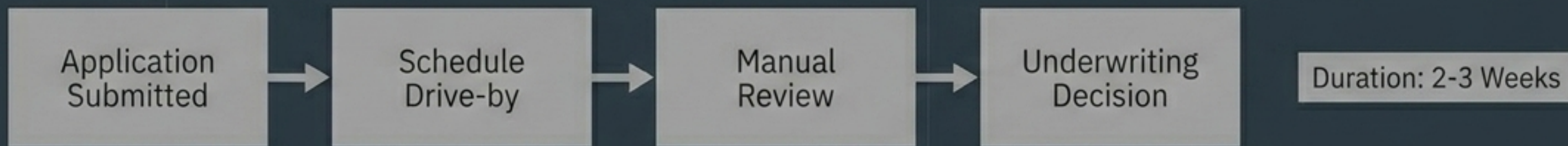


Continuous monitoring of expanding flood plains or encroaching wildfire brush lines relative to the parcel boundary.

The New Speed of Underwriting

Necla cdlA
43 101

Legacy System



Algorithmic System

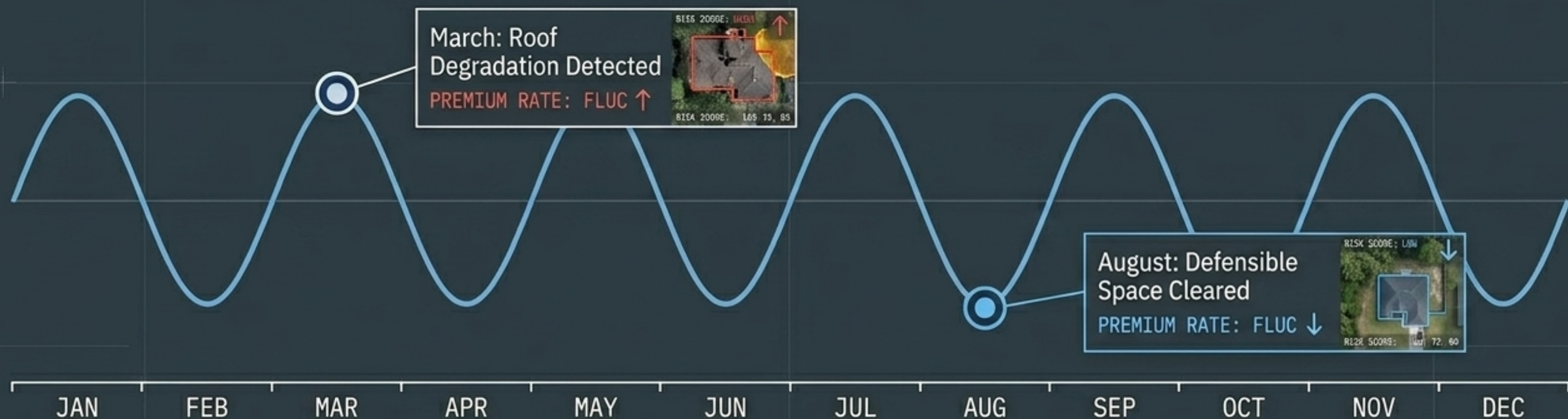


12.4 minutes

Instantaneous matching of rate and coverage to exact, current property risk.

The Synthesis: Continuous Underwriting

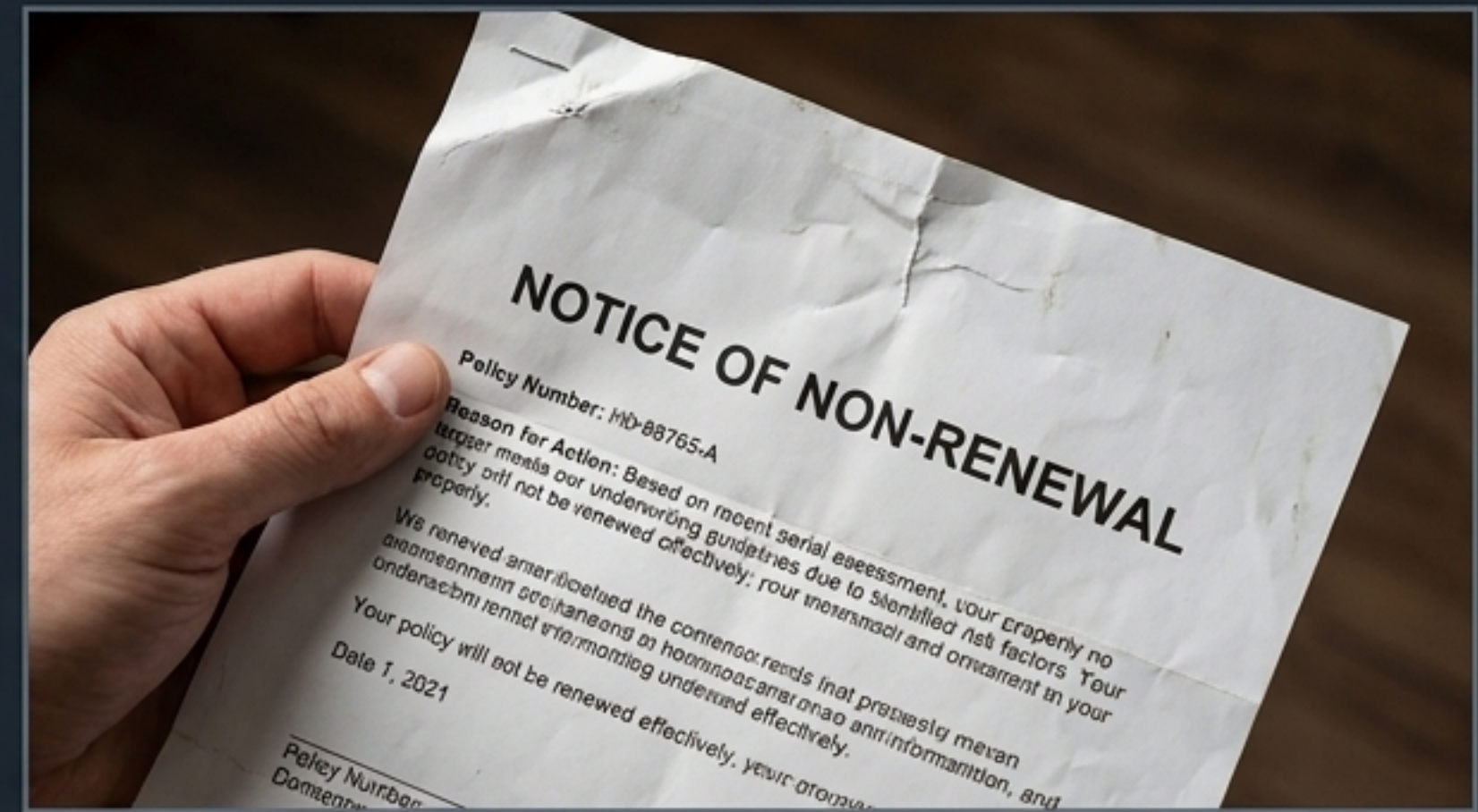
Concept: Moving away from the static annual contract. Policies are becoming living contracts. Premium pricing and risk exposure adjust dynamically in real-time, responding instantly to environmental changes and property modifications detected from orbit.



The Consumer Shock

Across the country, homeowners are receiving surprise non-renewals or massive rate hikes based on imagery they never knew was taken.

LON 34.569 N



The Data Gap:

Decisions are sometimes based on images that are **2 to 3 years out of date**, penalizing homeowners for roofs they have already replaced or trees they have already trimmed.

DATA LATENCY: +24-36 MONTHS

IMPACT: FALSE POSITIVE RISK

ACCURACY ALERT: VERIFICATION REQUIRED

The Cost of Algorithmic Rigidity

The False Positive

AI flags 'hanging tree limbs,' which, upon manual review, are discovered to simply be shadows cast by a nearby streetlamp.

CASE FILE: ORBITAL ANOMALY #47B-X
SCAN STATUS: MANUAL REVIEW REQUIRED

LAT 34.05 | LON 118.24 | RISK SCORE: FLAGGED

The Galveston Case

State Farm demands a roof replacement based on aerial photos. An independent roofer proves the roof is in perfect condition. The carrier initially refuses to share the images.

CASE FILE: ORBITAL DISPUTE #91G-V
DATA LATENCY: VERIFICATION PENDING

LAT 29.30 | LON 94.79 | RISK SCORE: CRITICAL

The Cosmetic Drop

Homeowners lose coverage over superficial moss or algae that an algorithm flags as critical deterioration, lacking the human nuance to understand the context.

CASE FILE: ORBITAL CONTEXT #23C-Y
IMPACT: COVERAGE TERMINATION

LAT 45.52 | LON 122.67 | RISK SCORE: CRITICAL

Regulators Step In: Efficiency vs. Fairness

Key Action: California

Commissioner Lara supports legislation to protect privacy and demand transparency in how insurers use aerial data to drop policies.

REGULATORY BRIEF: CA-2024-A | PRIVACY MANDATE: ACTIVE

Key Action: National

The NAIC (National Association of Insurance Commissioners) issues a Model Bulletin on the use of AI systems, demanding that algorithms must be transparent, auditable, and not operate as unaccountable “black boxes”.

POLICY BULLETIN: NAIC-AI-MODEL | AUDIT REQUIREMENT: MANDATORY

The New Rules of Engagement



Materiality

Insurers cannot drop coverage for superficial, cosmetic issues. The flagged condition must materially increase the risk of loss.

[RULESET: MATERIAL_IMPACT_V1 |
RISK ASSESSMENT: CRITICALITY CHECK]



Transparency

The evidence must be recent and visible. Aerial images used for adverse decisions must be no older than 45 days, and the insurer must show the photo to the homeowner.

[RULESET: DATA_CURRENCY_V2 |
EVIDENTIARY WINDOW: 45 DAYS]



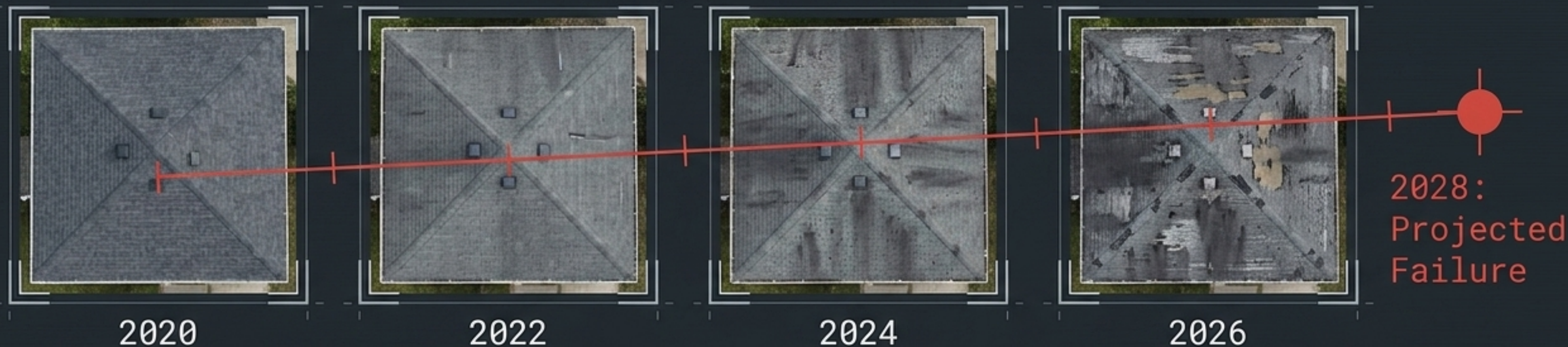
The Right to Cure

Homeowners must be given a reasonable timeframe and opportunity to fix the issue (e.g., trim the trees, clear the yard) before cancellation is finalized.

[RULESET: REMEDIATION_FRAMEWORK_V3 |
ACTION WINDOW: PENDING]

The Next Leap: Large Vision-Language Models

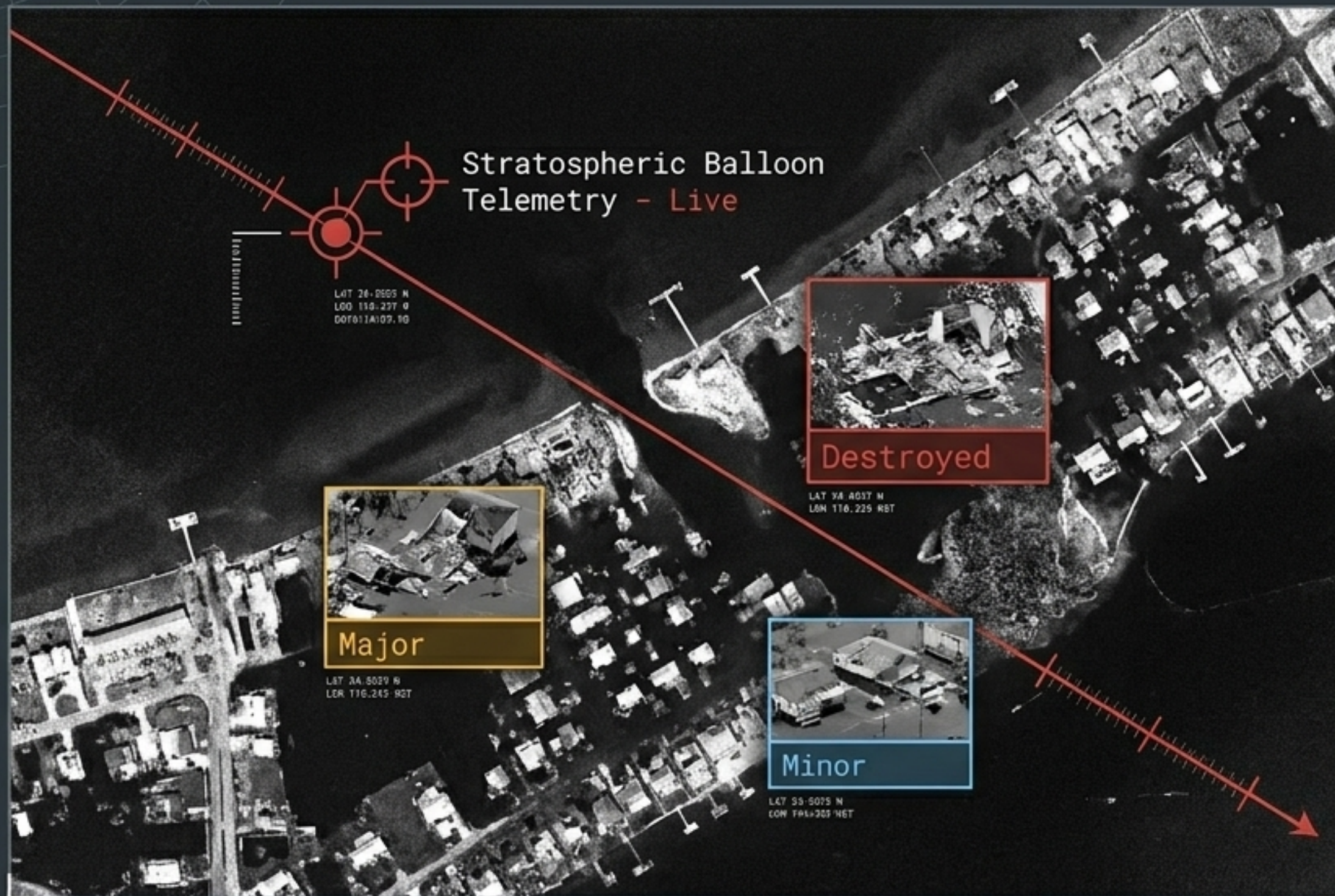
From Diagnostic to Predictive.



Emerging LVLMs don't just "see" a roof's current state; they "read" its historical degradation sequence over a 10-year period.

Impact: Enables hyper-accurate predictive maintenance, alerting homeowners to replace a roof 18 months before a leak actually occurs.

Real-Time Disaster Triage



Capabilities:

- Stratospheric balloons and SAR sensors peer through heavy cloud cover and thick wildfire smoke.
- Captures and categorizes damage (Destroyed, Major, Minor) while the event is still unfolding (within 24-48 hours).

Result:

- Initiates claims and deploys capital instantly, before the smoke even clears or the first notice of loss is filed by the homeowner.

The New Social Contract of Property

To be insurable is to be visible.

The old model relied on broad averages and zip codes. The new model is ruthlessly specific. In an era of orbital surveillance and climate volatility, the best defense for a homeowner is proactive, verifiable maintenance. The eye in the sky is always watching—and the algorithm is always scoring.

From: Lillian Altamirano
Sent: Monday, May 4, 2026 8:00 AM
To: CITY COUNCIL (INCL. CMO STAFF)
Subject: HBCSD M&O Building Project Vote

Some people who received this message don't often get email from laltamirano521@gmail.com. [Learn why this is important](#)

Dear City Council Members,

As a parent, a member of our community, and a voter who supported this Council, I am writing to you today regarding the upcoming City Council meeting on Tuesday, May 5, 2026, concerning the appeal of the Huntington Beach City School District's Maintenance & Operations (M&O) Building project.

I am writing to respectfully urge the City Council to uphold the Planning Commission's 6-1 approval of this project.

The District has spent over five years working with the City, OCTA, local realtors, and private landowners to find an alternative site, and this project has already completed CEQA review and has been approved at every level of City review. The district has proven itself to have done everything as it should to have this project approved.

This facility is essential for maintaining the schools that serve our 4,500+ students. Our M&O team is the backbone of our campus functionality, and they require a permanent, indoor home base to store tools and coordinate the work necessary to keep our schools safe and well-maintained. It is only fair that the council continues to uphold the vote to approve this building.

I understand there has been concern regarding this facility from a few (one) disgruntled community member(s), but the facts demonstrate that this project is a responsible and necessary solution for our district. The M&O team currently operates out of this site outdoors, and moving them into a 7,500 sq. ft. structure will actually reduce noise for the neighborhood. This building, which adheres to existing zoning, includes enhanced features like sound insulation, a block wall, and landscaping to ensure it fits the area appropriately. Those that live near the area, willingly purchased a home that backed to a site that was owned by the district. Thousands of students and some of our most valuable district employees should not have to pay the price because they don't like what their home has backed to since it was purchased. The facts demonstrate that this project is a responsible and necessary solution for our district.

Further delays in this approval process only serve to drain resources that should be going toward our students' education. I appreciate your time and your service to our community, and I ask that you please support this project by upholding the Planning Commission's vote.

Sincerely,

Lillian Altamirano

Huntington Beach Resident and Parent

From: supplementalcomm@surfcity-hb.org
To:
Subject: FW: HBCSD proposed Maintenance and Operations Building
Date: Monday, May 4, 2026 8:48:34 AM

From: Linda Minko
Sent: Sunday, May 3, 2026 2:08 PM
To: CITY COUNCIL (INCL. CMO STAFF)
Subject: HBCSD proposed Maintenance and Operations Building

Some people who received this message don't often get email from pmsurf@aol.com. [Learn why this is important](#)

Dear Huntington Beach City Council Members,

Our names are Pete and Linda Minko and we are residents that live at 21361 Breton Lane. We also vote every election. I am writing to express my strong opposition to the Huntington Beach City School District's (HBCSD) proposed Maintenance & Operations (M&O) Building. Adding a 7,500-square-foot, 17.5-foot-tall industrial building in the heart of our residential neighborhood is completely unacceptable. South Huntington Beach has already suffered the cumulative health impacts of remediation at the Ascon site, the power plant, (STILL waiting for the old plant to be taken down, but we can now see the new one at the end of my street where we used to see sky) and the Cannery Street Landfill (currently Edison Park). We cannot add industrial solvents, heavy trucks, and noise pollution to this list of health and environmental scars.

We live in the neighborhood right by the park and we can't understand why the HBCSD should get special treatment. They need to find an industrial site and put this facility there, not in our neighborhood. My husband works on his cars in our tract but that doesn't give him the ability to open a repair garage on our property. We have worked hard to afford a home in this neighborhood. This will affect our property values and be an eyesore. It also allows for a blind spot on the path we take to the park which could add a dangerous element for our neighborhood.

Beyond the severe impact on our daily lives, I am deeply concerned that the District is attempting to push this project through using highly questionable and potentially illegal tactics. At the upcoming May 5th hearing, we urge the City Council to address these severe procedural overreaches:

- **Illegal Baseline & Lack of Permits:** The District is attempting to establish a "baseline" based on unpermitted, de facto industrial use that began around 2018/2019, despite lacking a City Conditional Use Permit (CUP).
- **Misapplied Environmental Exemptions:** The District is claiming a Class 3 "Small Structures" exemption. This is a massive overreach, as this exemption was never intended for an industrial yard containing heavy machinery and hazardous materials.
- **Evasion of Oversight:** The District claims an exemption from local zoning, but the Division of the State Architect (DSA) has confirmed that it lacks authority to issue conditional use permits or enforce local zoning. This leaves a non-classroom industrial facility completely unchecked in a regulatory gap.
- **Safety & Park Conflicts:** The proximity of this structure to residential property lines (only 22.5 feet) and its interference with the Edison Park walkway pose a significant public safety conflict and increase the likelihood of noise ordinance violations.

We cannot let the District bypass environmental and city oversight at the expense of

our neighborhood's safety, peace, and property values. I urge the City Council to reject the District's Notice of Exemption (NOE) and demand that a formal Initial Study (IS) or Mitigated Negative Declaration (MND) be legally required before any further action is taken.


Pleas do not let this measure go through!

Pete and Linda Minko

From: [Robert Granger](#)
To: supplementalcomm@surfcity-hb.org; [CITY COUNCIL \(INCL. CMO STAFF\)](#); [Vigliotta, Mike](#)
Subject: Cannery Street Landfill and Kettler Elementary School: File #: 26-279 Appeal of Planning Commission's Action on Conditional Use Permit No. 23-014 (HBCSD Maintenance and Operations Building) Inbox
Date: Monday, May 4, 2026 4:56:38 PM
Attachments: [Edison-Geotechnical-Report.pdf](#)

For the record.

The Cannery Street Landfill is also part of the Kettler Elementary School property. It has several wells to let off the methane gas, but there is no history of soil testing that was done similar to the testing done at the Edison Community Center Park for the city by Geosyntec Consultants. A copy of their report is attached but it does not include any boring tests on the Kettler Elementary side of the Cannery Street Landfill.

 **Robert Granger**
Insurance Agent & Broker,
Granger Independent Insurance Services

- [949-424-6423 - \(949\) 4-CHOICE](tel:949-424-6423)
- www.grangerindependent.com
- robert@grangerindependent.com
- [20902 Brookhurst St. Ste 208, Huntington Beach, CA 92646](#)



June 7, 2021

Farhad Bolourchi, MSCE
Project Coordinator - Development Division
Community Service Department - City of Huntington Beach
2000 Main Street
Huntington Beach, California 92648

**Subject: Focused Area Waste Limit/Depth Evaluation
Edison Park, Huntington Beach, California**

INTRODUCTION

At the request of City of Huntington Beach, Community Services Department (City), Geosyntec Consultants Inc. (Geosyntec) has prepared this letter report documenting the results of limited subsurface investigations to evaluate the approximate lateral limit(s) and depth(s) of existing waste along a selected portion of the eastern edge of the former Canary Street Refuse Disposal Station (Landfill) at Edison Park (hereafter Site). The requested area for waste delineation at the Site is shown on **Figure 1** as it was provided to Geosyntec by the City in January 2019. The objective of the scope of work performed by Geosyntec was to collect field data to support the City in its evaluation of potential locations/types of proposed facilities/amenities at the Site.

BACKGROUND

Edison Park was constructed over the Cannery Street Former Refuse Disposal Station, also previously known as Cannery Street Landfill (CSL) in early 1970s. The CSL is approximately 27.5 acres, located in the City of Huntington Beach at the northwest corner of the intersection of Magnolia Street and Hamilton Avenue. The site's formal address is 21379 Magnolia Street, Huntington Beach, California 92647.

Some of the existing facilities/amenities at the Site are constructed on top of waste material deposited at the former CSL. Settlement, differential settlement, and potential sinkholes are typically expected to occur at facilities constructed on top of waste. The effect of settlement, differential settlement and/or a combination of both are observed at the existing tennis courts, sidewalks, open park areas and other hardscape/amenities at the Site. However, the surface expression of settlement/differential settlement is more pronounced in the vicinity of the Tennis courts potentially limiting the functionality and aesthetics of the Tennis courts.

In 2018, the City retained Geosyntec to prepare a feasibility study to evaluate several alternatives for repairing or reconstructing settlement related damage to the existing park and recreational areas at the Site [Geosyntec, 2018].

Geosyntec performed two site investigations for this project – the first investigation was performed between in November 2020 in the landscaped areas within the requested focus area and the second investigation was conducted on March 2021 in the areas of the park within the focus area currently under concrete slab.

PRE-FIELD INVESTIGATION ACTIVITIES

Geosyntec prepared a Site-specific Task Hazard Analysis (THA) that identified Site conditions, potential hazards, hazard control, monitoring procedures, personal protective equipment, and emergency procedures. Prior to field investigations, Geosyntec notified Underground Service Alert (USA) of southern California to mark and clear utilities in, and near to, the investigation focus area to reduce the potential for accidentally encountering buried utility lines. In addition, Geosyntec utilized the services of GEOVision, Inc. to perform a limited geophysical survey of the investigation focus area (and other potential boring/test pit locations) to evaluate potential buried underground utilities/features prior to performing field investigations. Geosyntec also obtained permits to advance soil borings from the Orange County Health Care Agency, Environmental Health Division, required under Orange County Well Ordinance (County Ordinance No. 2607) [Permit No. 20-08-22 and Permit No. 21-03-07]. The DigAlert ticket confirmations, field sketches provided by GEOVision and the soil boring permits are included here in **Appendix A**.

Geosyntec had, under a previous authorization from the City, prepared and submitted to the South Coast Air Quality Management District (SCAQMD) the required permit application package in general compliance with Rule 1150 which included an Excavation Management Plan. The permit application, was submitted on April 30, 2019 and deemed complete on May 03, 2019 [Application Number: 612262]. The SCAQMD issued the permit on September 11, 2020. An SCAQMD permit was not required for the second investigation. The permit issued by the SCAQMD for the first investigation and a copy of the Excavation Management Plan is included here in **Appendix B**.

FIELD INVESTIGATION

Test Pits

Five (5) exploratory test pits were logged between November 24 and November 25, 2020 by a Geosyntec engineer under the direction of a Professional Engineer licensed in the State of California to evaluate the approximate lateral limit(s) of the existing waste in the approximate areas shown on **Figure 2A**. The logs were prepared based on visual field observations of the exploratory test pits' exposed side-wall and retrieved soil cuttings. The logs include a general description of the encountered soils in accordance with the Unified Soil Classification System (USCS) and Standard Practice for Description and Identification of Soils (ASTM D2488) as well as a field sketch of the exploratory test pit wall showing interfaces of encountered materials. Geosyntec subcontracted with American Integrated Services, Inc. (AIS) to excavate and backfill the exploratory test pits using a standard backhoe.

The proposed exploratory test pits commenced at the approximate waste limit estimated by TRC [2001] as shown on **Figure 1**. The exploratory test pits were advanced to an approximate depth of 5 feet vertically and horizontally until existing waste limits are visually observed. Once waste was encountered in the exploratory test pit, efforts were made to reduce the excavation of additional material. Waste materials were not, to the extent practical, removed from the excavation. The exploratory test pits were generally advanced until waste material was encountered or until an obstruction such as surface concrete or other infrastructure was reached. Plastic tarps were placed with plywood sheeting to temporarily stage the test pit spoils during the excavation. Additionally, approximately 10 ft by 20 ft fence panels with windscreen attached were used to serve as a work exclusion area and visual barrier on three sides. Existing grass and topsoil were segregated from the exploratory test pits and replaced after backfilling the test pits directly with the materials excavated from the test pits. Backfill material was compacted in place to help provide unyielding condition using a roller attached to the end of the backhoe, however, density or moisture testing was not performed and/or required. Test pit logs are provided here in **Appendix C**.

Test pits were first advanced vertically until the waste material was encountered, and then advanced horizontally in an eastward direction to determine the lateral limit of the waste. The thickness of the soil overlying the waste were generally observed to range between 2 ft to 3.5 ft below the ground surface (bgs). Waste material was encountered at the five exploratory test pits (TP-1 through TP-5). Lateral limit of waste was delineated at test pits TP-1 and TP-2; however, the lateral limit of waste could not be identified at test pits

TP-3, TP-4, and TP-5. The approximate lateral limits of the waste as observed by the exploratory test pits are indicated in **Figures 2A and 2B**. A summary of test pit dimensions, thickness of the soil layer/depth to the top of waste is presented in **Table 1**.

Table 1: Summary of Test Pits

Test Pit ID	Width (ft)	Length (ft)	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Total Depth (ft bgs)
TP-1	3.5	19.5	3.0	4.5
TP-2	3.5	8.0	2.0	2.5
TP-3	3.5	21.5	3.0	3.5
TP-4	3.5 - 7.5	15.0	3.0	4.0
TP-5	3.5	45.0	2.0	2.5 - 4
TP-5A	3.5	6.0	2.0	3.5

Hollow-Stem Auger Borings

ABC Livion Drilling, Inc, working as a drilling subcontractor to Geosyntec advanced five (5) hollow-stem auger (HSA) borings on October 28, 2020 in the landscape areas and seven (7) HSA borings on March 12, 2021 in the concrete covered areas. The purpose of the HSA borings was to estimate the thickness of the existing waste layer at the approximate locations shown on **Figures 2A and 2B**. The HSA borings advanced near the estimated lateral limits of waste (i.e., HSA-1 through HSA-3) started approximately 5 to 10 feet to the west of waste limit as observed by the exploratory test pits. The purpose of these HSA borings (i.e., HSA-1 through HSA-3) was to evaluate the depth of waste at or near the lateral limits of waste as observed by field measurements from the exploratory test pits. The objective of the HSA borings advanced near the Tennis Court (i.e., HSA-4 and HSA-5) was to estimate the depth of existing waste in the vicinity of the Tennis Court area. The objective of HSA-2A through HSA-8A was to confirm if waste is present under the existing concrete slab and determine its depth, if present. Borehole logs for the HSA borings are provided in **Appendix D**.

Each boring was logged by Geosyntec field engineer and includes a description of the encountered soils performed in general accordance with the USCS and Standard Practice for Description and Identification of Soils (ASTM D2488). Soil samples were collected from the HSA borings for logging and visual identification purposes, but no samples were retained for laboratory testing. Split-spoon samples were performed generally on the soil

material encountered at the bottom of the boreholes to estimate the depth of waste. Each boring was advanced to a minimum of 1 foot below the bottom of the waste material, or until refusal, to visually assess that bottom of waste was reached. The HSA borings were backfilled with hydrated bentonite chips and the upper six inches with topsoil. The cuttings were containerized in 55-gallon drums, stored on-Site pending waste profiling, and disposed off-Site by AIS under waste manifest. Groundwater levels encountered in the HSA borings were recorded using a water level indicator. The depths to encountered groundwater at each of the HSA are listed in **Table 2**.

The thickness of the soil overlying the waste material, as observed from the HSA borings were found to range between 2 ft to 3.5 ft bgs. Borings HSA-4 and HSA-5 were advanced to depths of 34 ft and 41.5 ft bgs, respectively. Borings HSA-1, HSA-2, and HSA-3 were advanced to depths of 11.5 ft, 16.5 ft, and 21.5 ft bgs, respectively. HSA-2A through HSA-8A were advanced to depths that ranged from about 16.5 to 18 feet. The depths of groundwater encountered in the landscape HSA borings (HSA-1 through HSA-5 performed) were observed to range between 8 and 12 ft bgs. The depths of groundwater encountered in borings (HSA-3A through HSA-5A, HSA-7A and HSA-8A) were observed to range between 12.5 and 16.5 ft bgs. Groundwater was not encountered at borings HSA-2A and HSA-6A. The depth of waste was identified in the HSA borings where waste was encountered except HSA-4, which hit refusal at a depth of 34 ft bgs before reaching the bottom of the waste. A summary of the HSA borings including the depth/thickness of the soil layer and waste, and the depth to groundwater is presented in **Table 2**.

Table 2: Summary of HSA Borings

Boring ID	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Depth to bottom of Waste (ft)	Waste Thickness (ft)	Total Depth (ft bgs)	Depth to Groundwater (ft bgs)
HSA-1	3.5	10.5	7.0	11.5	10.5
HSA-2	2.5	15.5	13.0	16.5	12.5
HSA-3	2.5	20.5	18.0	21.5	11.0
HSA-4	2.0	–	>32.0	34.0	8.0
HSA-5	2.5	40.5	38.0	41.5	12.0
HSA-2A*	3.0*	10*	7.0*	16.5	Not observed
HSA-3A*	2.5*	10*	7.5*	16.5	15

Boring ID	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Depth to bottom of Waste (ft)	Waste Thickness (ft)	Total Depth (ft bgs)	Depth to Groundwater (ft bgs)
HSA-4A*	2.5*	5*	2.5*	16.5	14.0
HSA-5A*	2.5*	15*	12.5*	17	16.5
HSA-6A*	2.5*	15*	12.5*	16.5	Not observed
HSA-7A*	3*	10*	7*	18	13.5
HSA-8A*	2.5*	11*	8.5*	16.5	12.5

*Soil materials encountered in this borehole contained slight traces of waste materials based on visual and odor field observations. No clearly defined waste layer was encountered in this borehole. Slight waste traces observed in this borehole may not be part of a continuous waste layer.

The approximate locations of the exploratory test pits and HSA borings were recorded using a hand-held global positioning system (GPS) unit.

Daily field reports with photo logs for the field investigation activities are included in **Appendix E**.

Air Monitoring

Geosyntec provided air monitoring services during the first field investigation phase of the project. The air monitoring was performed by Geosyntec in general accordance with the requirements of the SCAQMD Rule 1150. The general prevailing wind direction at the site was typically onshore from the west-southwest to east-northeast. The upwind and downwind monitoring locations are shown on **Figure 1**.

In accordance with the requirements of the SCAQMD Rule 1150, the following air quality parameters were monitored:

- Particulate matter (dust) as PM₁₀ – PM₁₀ monitoring will be performed using a DustTRAK DRX Handheld Aerosol monitor. Dust monitoring was conducted approximately every 60 minutes throughout the workday at the upwind and downwind monitoring locations. Action levels for dust at the monitoring locations was set in accordance with the SCAQMD Rule 1150 requirements at 0.05 mg/m³ above background. The recorded PM₁₀ levels were below the action level of 0.05 mg/m³ above background.
- Total Organic Compounds (TOCs) as methane – Continuous monitoring of TOC was conducted using an QRAE III monitoring equipment at the working face of

the excavation and at the downwind property monitoring location. The maximum sustained readings (greater than 15 seconds) were recorded at approximately every 15 minutes. Action levels for TOC readings at the excavation face and downwind property monitoring location was set at 500 ppmv and 200 ppmv, respectively, in accordance with the SCAQMD Rule 1150 requirements. The recorded TOC level were below the action levels at the monitoring locations.

- Odor – Unusual odor or increase in odor was not detected by Geosyntec personnel during the test pit excavation or HSA drilling.
- Local Weather – Local weather parameters were monitored at approximately every 15 minutes throughout the workday. Ambient Temperature (°F), and Wind Direction were monitored digitally from the KCAHUNT143 weather station located in close proximity to the Site. Wind Speed (miles/hour) was measured using a handheld Kestrel 4000 monitoring device.

Daily air monitoring logs are provided in **Appendix E**.

FINDINGS

Waste Delineated

Lateral limits of waste was delineated at two test pit locations (TP-1 and TP-2). Figure 2 shows an approximate limit of waste as identified from the test pits. The approximate depths to the encountered waste layer at TP-1 and TP-2 were 3.5 ft bgs and 3 ft bgs, respectively.

Waste Not-Delineated

Waste was identified at three test pit locations (TP-3, TP-4, and TP-5); however, the lateral limit of waste was not identified. It is likely that the lateral limits of waste at these locations may extend eastward past the obstruction such as the concrete slab at TP-3 and TP-4, and concrete sidewalk at TP-5. The approximate depths to waste from existing surface at TP-3, TP-4, and TP-5 ranged between 2 to 3 ft bgs.

Waste Depth

The depths of waste at HSA borings near the estimated lateral limits of waste (HSA-1 through HSA-3) were found to range between 10.5 ft and 20.5 ft bgs. The depth of waste at HSA-5 near the northern edge of tennis court was observed to be approximately 40.5 ft bgs. The depth of waste at HSA-4 near the southern edge of the tennis court could not be identified due to refusal, however waste was still observed up to 34 ft bgs. The

depths of waste at the borings under concrete slab (HSA-2A through HSA-8A) were found to range between 5 ft and 15 ft bgs.

Waste and Soil Layer Characteristics

The soil layer at the Site was visually classified as silty sand (SM) in general accordance with ASTM D2488. The thickness of the soil layer generally ranged between 2 to 3.5 ft bgs. The waste material encountered at the site generally composed of dark gray asphalt concrete debris and decayed wood pieces within the landscape areas and dark gray, medium to high plasticity clay soils, with trace debris and slight organic odor within the concrete slab areas. The waste materials did not have any unusual odor. The above characteristics of the waste material was consistent throughout the investigation locations.

Groundwater

Groundwater was encountered at all five HSA boring locations in the landscape areas and all but two HSA borings in the concrete slab areas. The depth to groundwater in the landscape borings generally ranged between 8 to 12 ft bgs. The depth to groundwater in the concrete slab borings generally ranged between 12.5 to 16.5 ft bgs except at HSA-2A and HSA-6A where groundwater was not encountered.

SUMMARY AND RECOMMENDATIONS

In general, existing waste limit was delineated along the Eastern limit of the CSL as identified by Test Pits (TP-1 and TP-2). However, the existing waste limit along the Southern Section of the Eastern limit of CSL was not delineated due the existing structures and/or concrete lined areas. Test Pits (TP-3, TP-4 and TP-5) were advanced until the test pit encountered a structure and/or lined areas. Based on borings HSA-2A through HSA-8A, traces of waste material impeded within soil layer is present under the concrete slab within the focus area as shown in **Figure 2B**. However, the exact waste amount that maybe impeded in the soil layer located in areas under the concrete slab of the site is not known. Geosyntec recommends that field observations and monitoring services are performed by an experienced landfill engineer during the construction and/or excavation phase of the project to help further identify the limit of potential waste materials. Geosyntec also recommends that excavation and/construction activities in the areas described in this letter report are performed by a licensed Contractor with extensive experience in working in landfill environments. Proposed design features, amenities and structures should take into consideration the potential presence of waste materials in the areas described in this letter report. Furthermore, Geosyntec recommends that the design team for proposed structures and park amenities work closely with an experience landfill

engineer that can provide design input recommendation including but not limited to potential settlement, methane, drainage, irrigation and other design considerations.

LIMITATIONS

The conclusions and professional opinions presented in this letter report were prepared for the City of Huntington Beach in accordance with generally accepted geotechnical and landfill engineering principles and practices.

The subsurface conditions presented in this letter report are based on information obtained from a limited number of exploratory test pits and HSA borings advanced to evaluate lateral limits and depths of the existing waste.

The data, conclusions, and recommendation contained herein should be considered only for this specific project and locations discussed in this letter report. Geosyntec is not responsible for any conclusions or recommendations that may be made by others, unless we have been given an opportunity to review such conclusions and/or recommendations and concur with them in writing. If any changes are made in the project as outlined in this letter report, the conclusions and/or recommendations contained in this letter report shall not be valid unless the changes are reviewed and the conclusions and/or recommendations of this letter report are modified or approved in writing by Geosyntec.

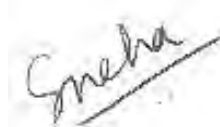
CLOSURE

We appreciate the opportunity of assisting you on this important project. If you have any questions about this letter report, or require additional information, please do not hesitate to call the undersigned at (714) 969-0800.

Sincerely,



Karthik Viswanathan, E.I.T.
Engineer



Sneha Upadhyaya, Ph.D.
Senior Staff Engineer



Yonas B. Zemuy, P.E.
Principal Engineer

Attachments:

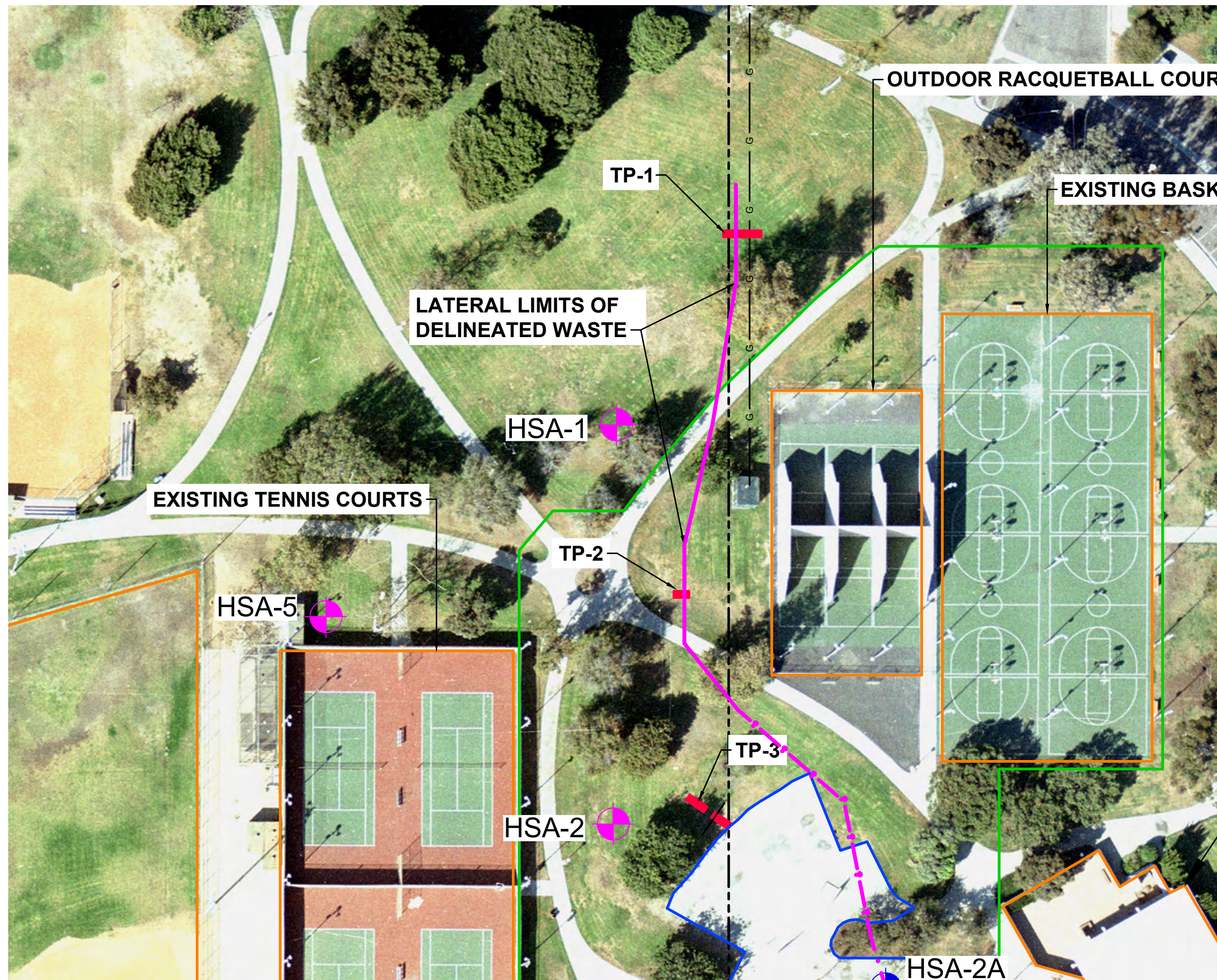
- Figure 1 – Site Plan
- Figure 2a – Field Investigation Locations (North)
- Figure 2b – Field Investigation Locations (South)
- Appendix A – Soil Boring Permit, DigAlert Ticket Confirmations and Geophysical Utility Clearance Field Notes
- Appendix B – SCAQMD Permit for Rule 1150
- Appendix C – Test Pit Logs
- Appendix D – Boring Logs with Key
- Appendix E – Daily Field Reports
- Appendix F – Air Monitoring Logs

REFERENCES









- Geosyntec [2018], "Feasibility Study for Edison Park Settlement Related Damage Repair," Geosyntec Consultants, Inc., October 3, 2018.
- TRC [2001], "Environmental Site Assessment Report, Former Cannery Street Refuse Disposal Station," prepared for the County of Orange Integrated Waste Management Department. January.

Figures

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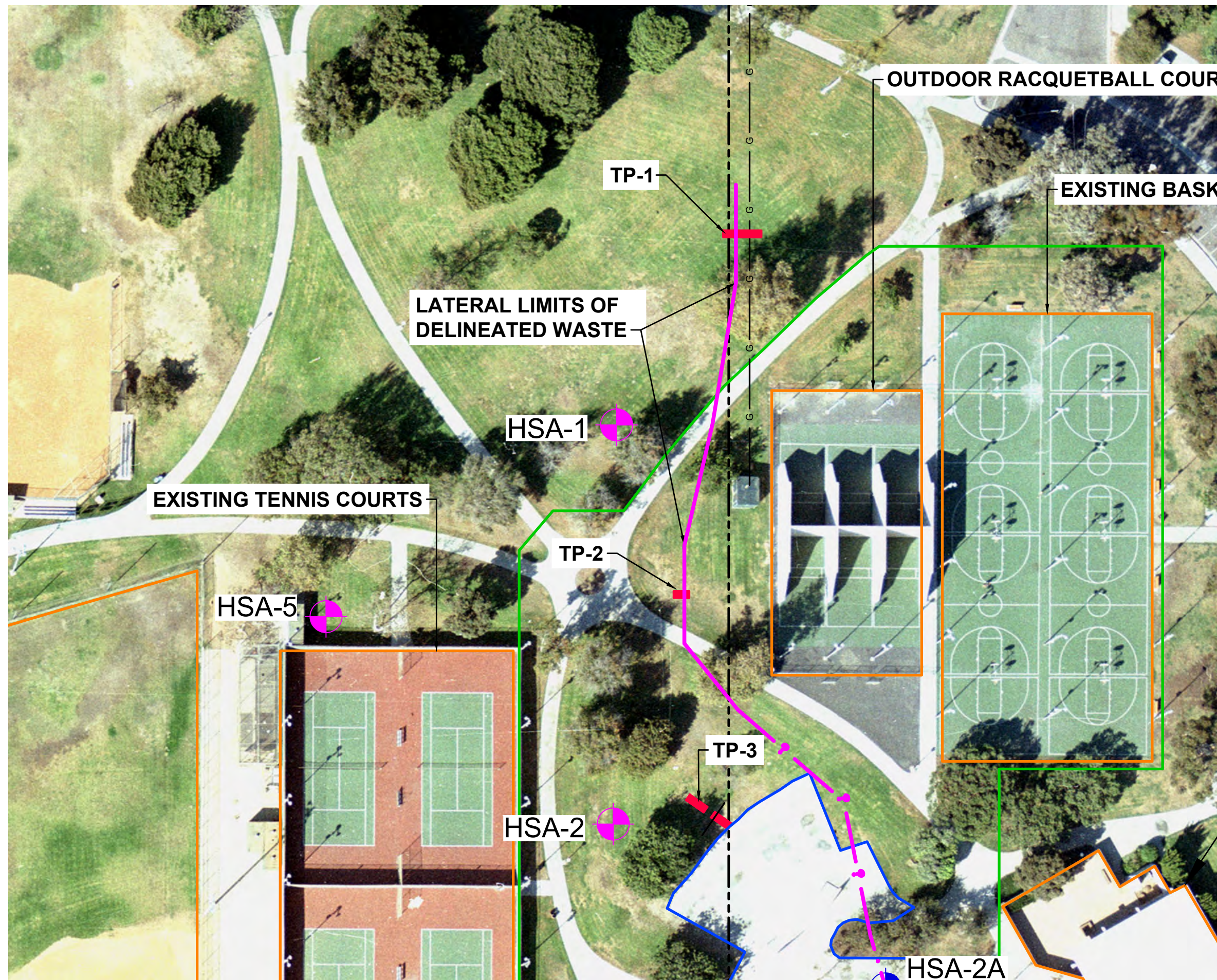
LEGEND

-  APPROXIMATE LIMITS OF EXISTING CANNERY STREET FORMER REFUSE DISPOSAL STATION WASTE [TRC, 2001]
-  BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2020)
-  EXPLORATORY TEST PITS PERFORMED (GEOSYNTEC, 2020)
-  REQUESTED INVESTIGATION AREA (2020)
-  REQUESTED INVESTIGATION AREA (2021)
-  EXISTING BURIED LFG HEADER PIPE
-  APPROXIMATE LATERAL LIMITS OF DELINEATED WASTE
-  AREAS WITH TRACES OF WASTE MATERIAL (QUERIED WHERE UNCERTAIN)






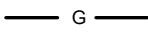


FIELD INVESTIGATION LOCATIONS (NORTH)
EDISON PARK - WASTE DELINEATION
HUNTINGTON BEACH, CALIFORNIA

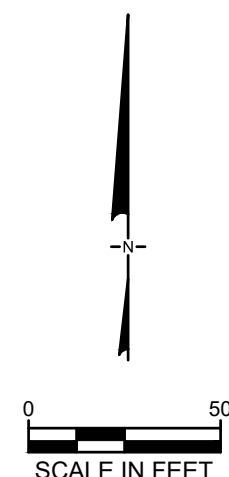
		FIGURE 2A
PROJECT NO: HL1685B	JUNE 2021	

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LEGEND

-  APPROXIMATE LIMITS OF EXISTING CANNERY STREET FORMER REFUSE DISPOSAL STATION WASTE [TRC, 2001]
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-  APPROXIMATE LATERAL LIMITS OF DELINEATED WASTE
-  AREAS WITH TRACES OF WASTE MATERIAL (QUERIED WHERE UNCERTAIN)



FIELD INVESTIGATION LOCATIONS (NORTH)
EDISON PARK - WASTE DELINEATION
HUNTINGTON BEACH, CALIFORNIA

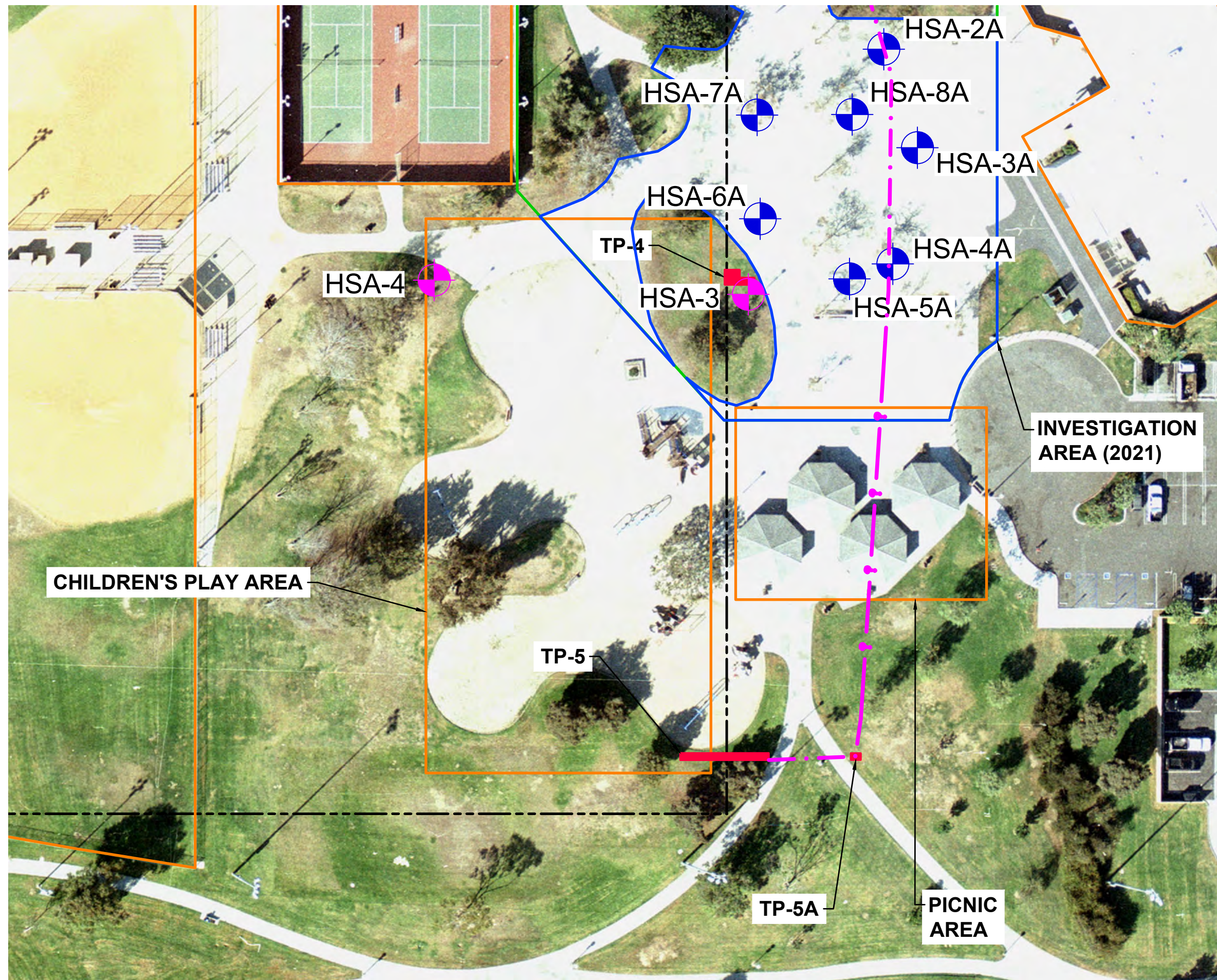


FIGURE
2A

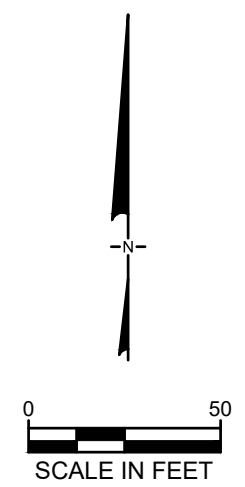
PROJECT NO: HL1685B

JUNE 2021

N:\CADD\EDISON PARK\EDISON PARK-HL 1685\FIGURES\1685F014 - Last Saved by: KY/Iswanathan on 5/6/21



LEGEND	
	APPROXIMATE LIMITS OF EXISTING CANNERY STREET FORMER REFUSE DISPOSAL STATION WASTE [TRC, 2001]
	BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2020)
	EXPLORATORY TEST PITS PERFORMED (GEOSYNTEC, 2020)
	BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2021)
	REQUESTED INVESTIGATION AREA (2020)
	REQUESTED INVESTIGATION AREA (2021)
	EXISTING BURIED LFG HEADER PIPE
	AREAS WITH TRACES OF WASTE MATERIAL (QUERIED WHERE UNCERTAIN)



FIELD INVESTIGATION LOCATIONS (SOUTH)
EDISON PARK - WASTE DELINEATION
HUNTINGTON BEACH, CALIFORNIA

		FIGURE 2B
PROJECT NO: HL1685B	JUNE 2021	

Appendix A

Soil Boring Permit, DigAlert Ticket Confirmations and Geophysical Utility Clearance Field Notes

Karthik Viswanathan

From: noreply@digalert.org
Sent: Friday, September 18, 2020 6:25 PM
To: Karthik Viswanathan
Subject: DigAlert Confirmation for Ticket A202620900-00A

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

EMLCFM 03993A USAS 09/18/20 18:25:10 A202620900-00A NEW NORM POLY LREQ

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Ticket: A202620900 Rev: 00A Created: 09/18/20 18:24 User: BRJ Chan: 100

Work Start: 09/24/20 07:00 Legal Start: 09/24/20 07:00 Expires: 10/16/20 23:59
Response required: Y Priority: 2

Excavator Information

Company: AMERICAN INTERGRATED SERVICES
Co Addr: 1502 E OPP ST
City : WILMINGTON State: CA Zip: 90744
Created By: KARTHIK VISWANATHAN-GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA

Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: KVISWANATHAN@GEOSYNTEC.COM

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: STILWELL DR

: X/ST1: POSTON LN

:

: APPROX 65FT W/OF POSTON LN AT APPROX 250FT, 400FT, 520FT, 760FT,
: 1015FT S/OF STILWELL DR **ALL LOCATIONS WITHIN PARK** **PROPERTY OF
: EDISON COMMUNITY PARK** **MARK 25FT RADIUS ALL LOCATIONS**

Delineated Method: WHITEPAINT

Work Type: (5) TEST PITS (8FT DEPTH)

Work For : GEOSYNTEC CONSULTANTS

Permit: Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33.653755/-117.973122 33.653752/-117.972114
: 33.650862/-117.973129 33.650859/-117.972121
Excavator Provided: 33.653346/-117.972630 33.652895/-117.972609
: 33.652569/-117.972623 33.651933/-117.972633 33.651273/-117.972623

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=E4TbQYTXQXOSNVW-C

Members:

CSD91	ORANGE CO SANITATION	CONTROL CENTER	714-593-7025
HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714-861-0134
MCISOCAL	MCI (VERIZON BUSINESS) FIBE	FIBER SECURITY DEPT	800-624-9675
SCG2XN	SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
UCHTRW_C5	UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714-766-9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE	SC EDISON PERSONNEL	800-611-1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800-366-7801

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Karthik Viswanathan

From: noreply@digalert.org
Sent: Friday, September 18, 2020 6:35 PM
To: Karthik Viswanathan
Subject: DigAlert Confirmation for Ticket A202620902-00A

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EMLCFM 03997A USAS 09/18/20 18:34:34 A202620902-00A NEW NORM POLY LREQ

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Ticket: A202620902 Rev: 00A Created: 09/18/20 18:34 User: BRJ Chan: 100

Work Start: 09/24/20 07:00 Legal Start: 09/24/20 07:00 Expires: 10/16/20 23:59
Response required: Y Priority: 2

Excavator Information

Company: ABC LIOVIN DRILLING
Co Addr: 1180 E BURNETT ST
City : SIGNAL HILL State: CA Zip: 90755
Created By: KARTHIK VISWANATHAN-GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA

Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: KVISWANATHAN@GEOSYNTEC.COM

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: STILWELL DR

: X/ST1: POSTON LN

:

: APPROX 50FT W/OF POSTON LN AT APPROX 320FT, 570FT, 745FT S/OF STILWELL

: DR; APPROX 240FT W/OF POSTON LN AT APPROX 720FT & 450FT S/OF STILWELL

: DR **ALL LOCATIONS WITHIN PARK** **PROPERTY OF EDISON COMMUNITY

: PARK** **MARK 25FT RADIUS ALL LOCATIONS**

Delineated Method: WHITEPAINT

Work Type: (5) SOIL BORINGS

Work For : GEOSYNTEC CONSULTANTS

Permit:

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33.653556/-117.973708 33.653537/-117.972127
: 33.651572/-117.973731 33.651553/-117.972151
Excavator Provided: 33.653131/-117.972625 33.652477/-117.972639
: 33.651969/-117.972632 33.652032/-117.973225 33.652770/-117.973224

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=64Co9pCk9sztws3-k

Members:

HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714-861-0134
SCG2XN	SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
UCHTRW_C5	UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714-766-9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE	SC EDISON PERSONNEL	800-611-1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800-366-7801

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Karthik Viswanathan

From: noreply@digalert.org
Sent: Monday, March 8, 2021 3:11 PM
To: Sneha Upadhyaya
Subject: DigAlert Confirmation for Ticket A210670984-00A

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EMLCFM 04567A USAS 03/08/21 15:11:07 A210670984-00A NEW NORM POLY LREQ

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Ticket: A210670984 Rev: 00A Created: 03/08/21 15:10 User: NAN Chan: 100

Work Start: 03/12/21 07:00 Legal Start: 03/12/21 07:00 Expires: 04/05/21 23:59
Response required: Y Priority: 2

Excavator Information

Company: ABC LIOVIN DRILLING
Co Addr: 1180 E BURNETT ST
City : SIGNAL HILL State: CA Zip: 90755
Created By: KARTHIK VISWANATHAN (GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA
Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: supadhyaya@geosyntec.com

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: MAGNOLIA ST
: X/ST1: HAMILTON AVE
:
: APPROX 685FT N/OF HAMILTON AVE AT APPROX 430FT W/OF S/BOUND MAGNOLIA
: ST; APPROX 630FT N/OF HAMILTON AVE AT APPROX 370FT W/OF S/BOUND
: MAGNOLIA ST; APPROX 585FT N/OF HAMILTON AVE AT APPROX 345FT W/OF
: S/BOUND MAGNOLIA ST; APPROX 525FT N/OF HAMILTON AVE AT APPROX 335FT
: W/OF S/BOUND MAGNOLIA ST; APPROX 530FT N/OF HAMILTON AVE AT APPROX
: 375FT W/OF S/BOUND MAGNOLIA ST; APPROX 545FT N/OF HAMILTON AVE AT
: APPROX 420FT W/OF S/BOUND MAGNOLIA ST; APPROX 608FT N/OF HAMILTON AVE
: AT APPROX 375FT W/OF S/BOUND MAGNOLIA ST; **MARK 25FT RADIUS AROUND
: EACH LOCATION** **DELINEATED EACH LOCATION #1-8 IN WHITE PAINT**

Delineated Method: WHITEPAINT

Work Type: 8 SOIL BORINGS

Work For : GEOSYNTEC

Permit:

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33.652888/-117.972945 33.652751/-117.971663
: 33.651623/-117.973080 33.651486/-117.971798

Excavator Provided: 33.652427/-117.972528 33.652276/-117.972352
: 33.652137/-117.972245 33.651984/-117.972236 33.651974/-117.972353
: 33.652017/-117.972514 33.652159/-117.972535 33.652187/-117.972344

Map link:

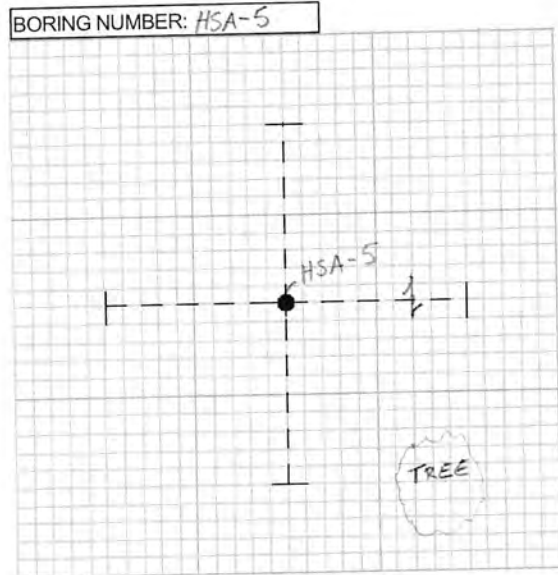
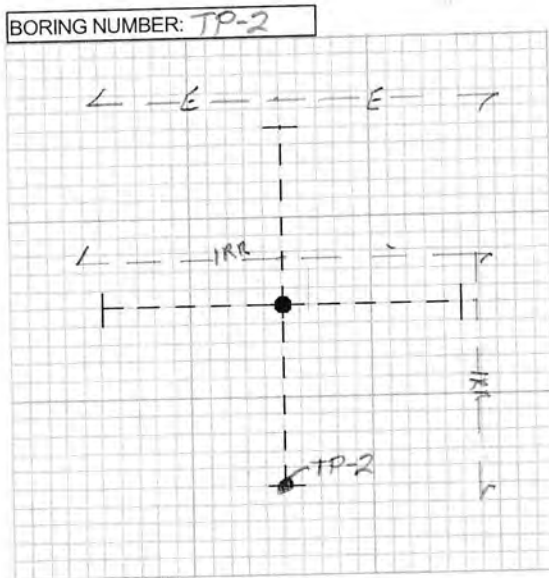
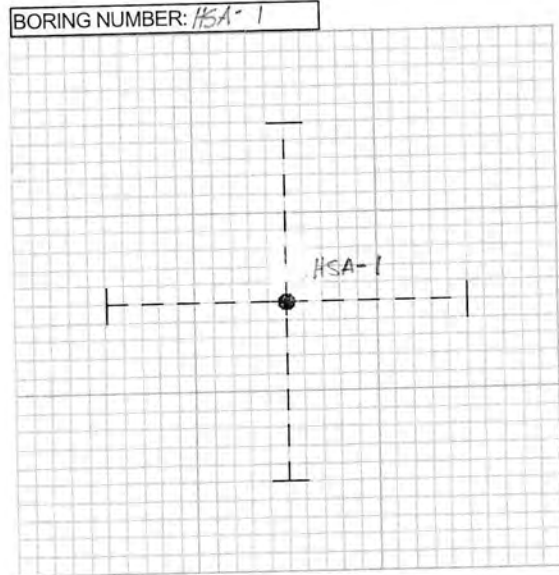
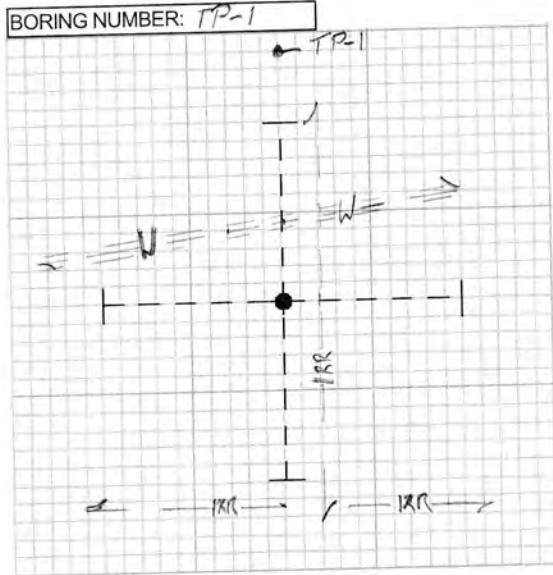
https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=F5RZPXUXMfKaEaN-Q

Members:

HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714-861-0134
SCG2XN	SOCALGAS DISTRIBUTION GARDEN	LEAD DISPATCHER - CHUCK	800-603-7060
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714-766-9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE	SC EDISON PERSONNEL	800-611-1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800-366-7801

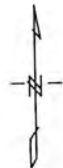
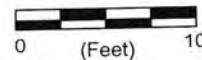
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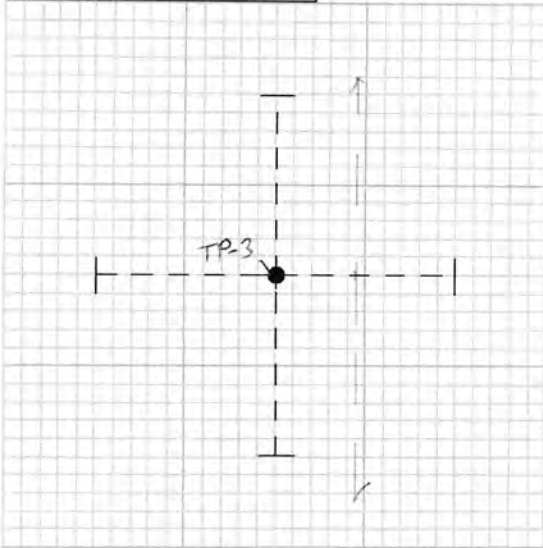
LEGEND

- Proposed Boring Location
- GPR Traverse with File Number
- Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line

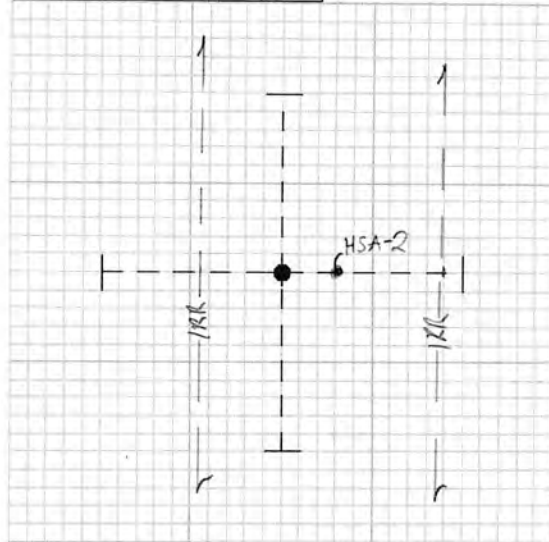


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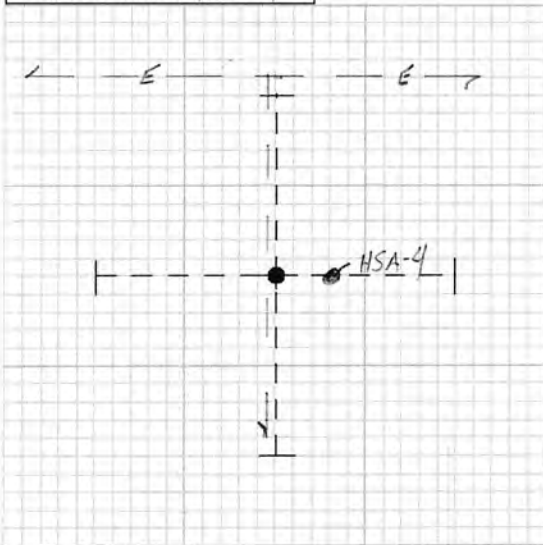
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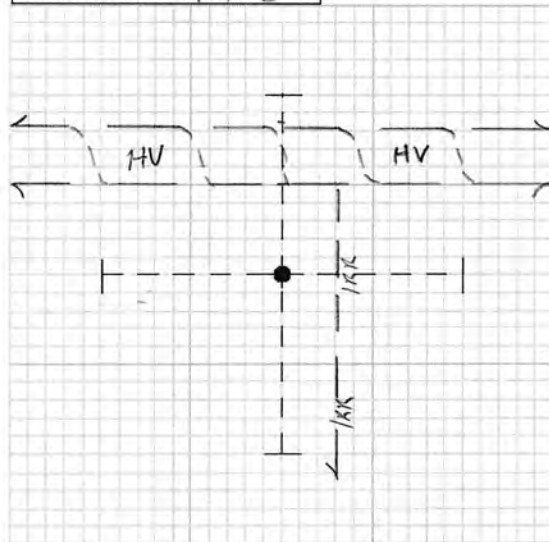
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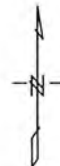
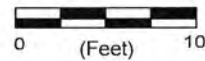


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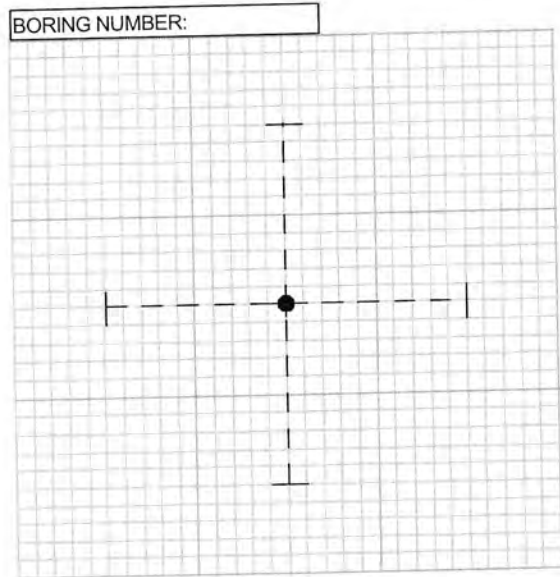
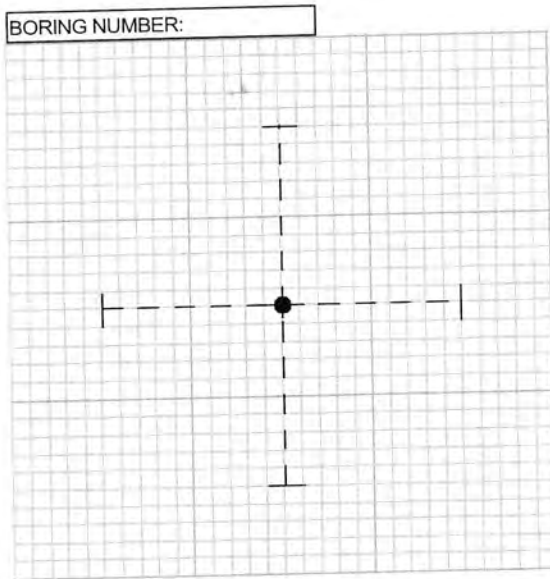
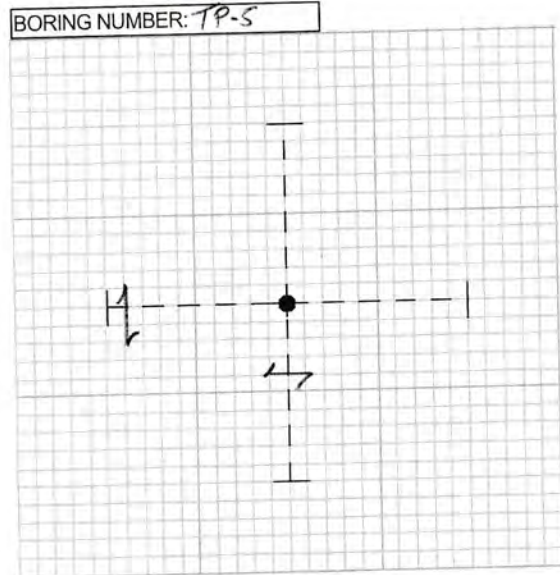
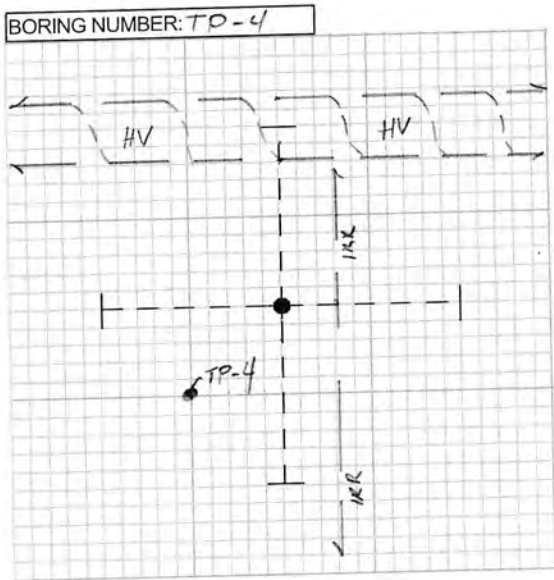
LEGEND

- Proposed Boring Location
- 1328 — | GPR Traverse with File Number
- ← NG → Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W= Water, C = Unknown Line



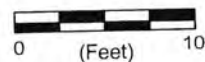
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Job Number: 20310 Date: 9-23-20
 Client: GEOSYNTEC Page No. _____
 Site Address: 21377 MAGADLIA ST
HUNTINGTON BEACH, CA



LEGEND

- Proposed Boring Location
- 1328 — | GPR Traverse with File Number
- ← NG → Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line



NOTE: All Geophysical methods have limitations dependant on: instrumentation used, soil conditions, and local cultural noise and other interference. The geophysical conditions interpretation presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

Date: 3-11-21

Job No. 21070

DAILY FIELD SUMMARY

Sheet: 1 of 3

Client: Geosyntec

Location: 21377 magnolia ST

Huntington Beach, CA

Description	Hours
Arrived @ 7:00	
Safety tailgate meeting	
Cleared eight Boring Locations B1, B2, B3, B4	
B5, B6, B7, and B8 for all detectable	
Utilities.	
Using the RD 8000, Fisher TW-6, GO HD2	
sir 3000 GPR and walk in tandem.	
Hand Auger 5'	
	Total:

GV Personnel: JF

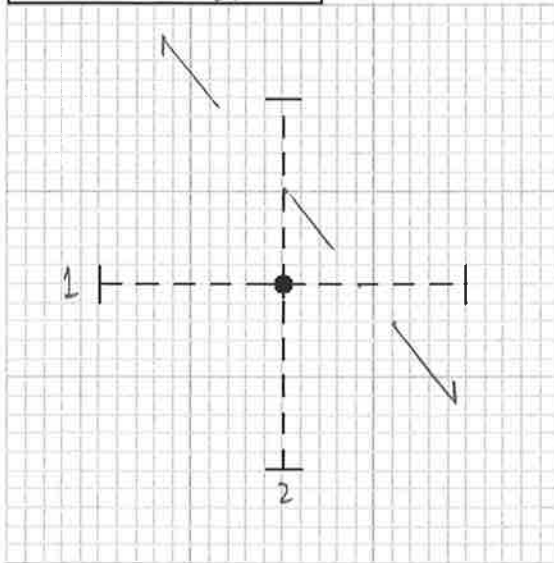
GV Field Supervisor: [Signature]

Date: 3-11-21

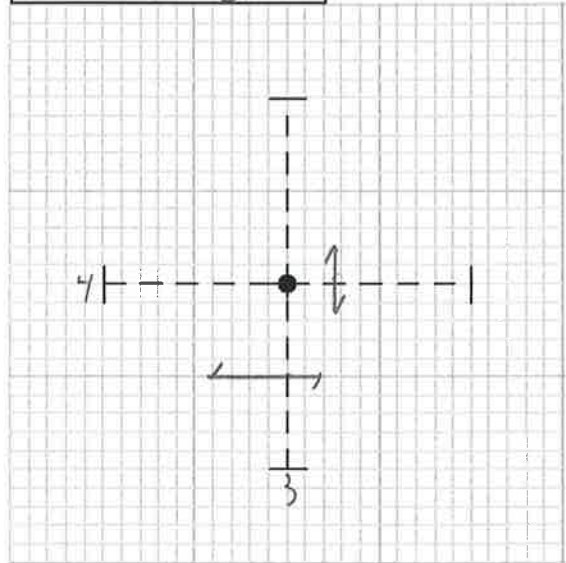
Client Approval: [Signature]

Date: 3-11-21

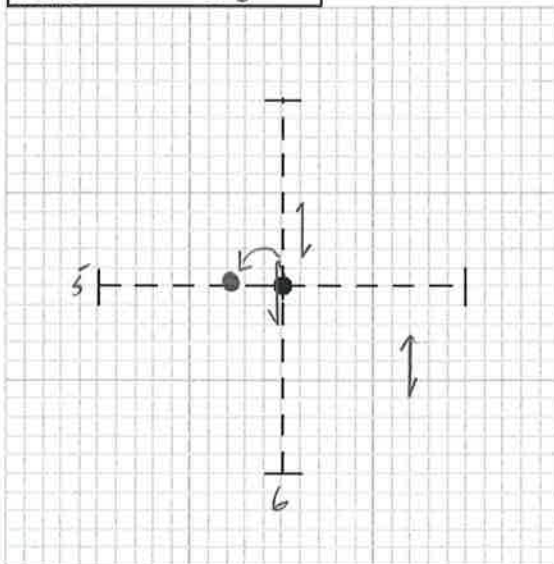
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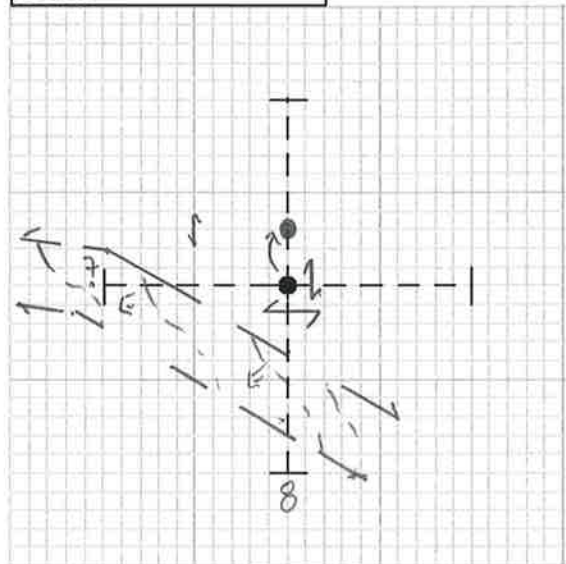
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

BORING NUMBER: B3



BORING NUMBER: B4



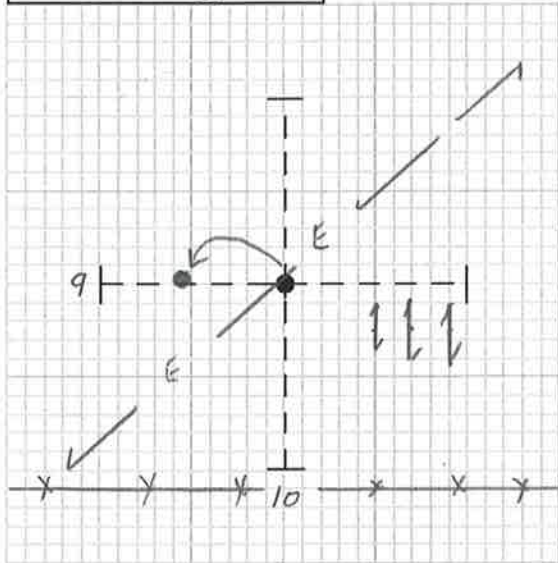
LEGEND

-  Proposed Boring Location
-  1328 GPR Traverse with File Number
-  Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line

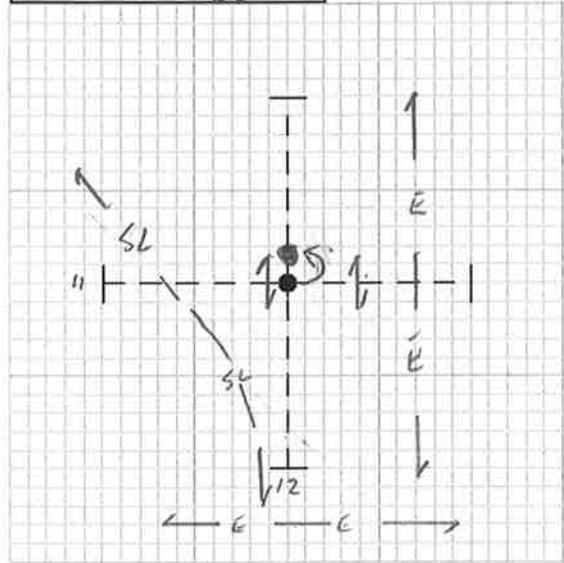


NOTE: All Geophysical methods have limitations dependant on: instrumentation used, soil conditions, and local cultural noise and other interference. The geophysical conditions interpretation presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

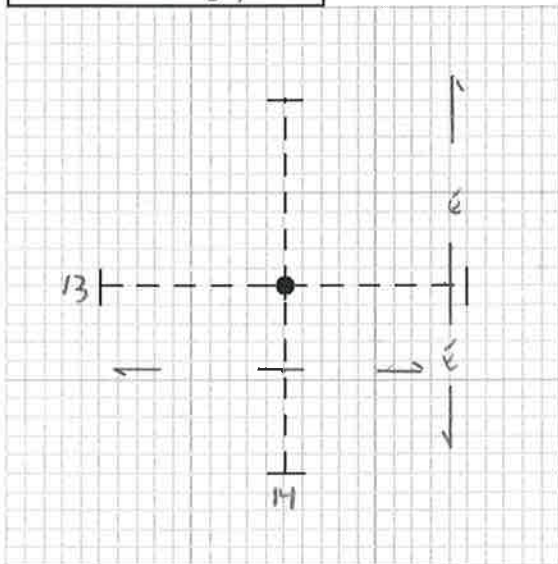
BORING NUMBER: B5



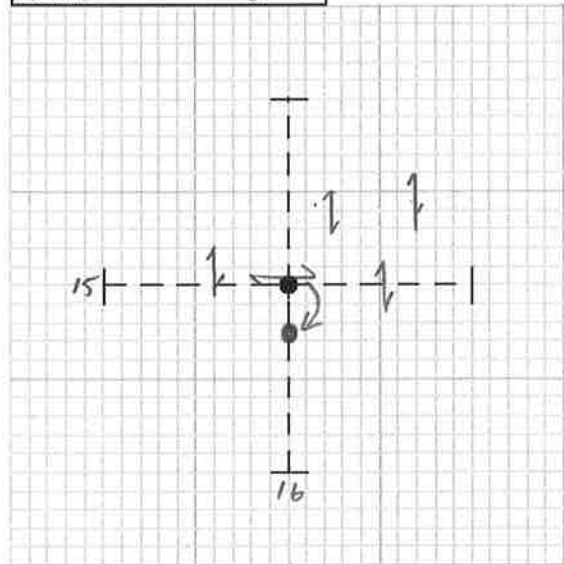
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

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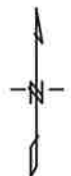


BORING NUMBER: B8



LEGEND

-  Proposed Boring Location
-  GPR Traverse with File Number
-  Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line



NOTE: All Geophysical methods have limitations dependant on: instrumentation used, soil conditions, and local cultural noise and other interference. The geophysical conditions interpretation presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

APPLICATION FOR WELL CONSTRUCTION PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION

1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

(714) 433-6000
FAX: (714) 433-6481

CITY HUNTINGTON BEACH		DATE 08/24/2020	WELL PERMIT NUMBER 20-08-22
WELL LOCATION (ADDRESS IF AVAILABLE) Edison Park - 21377 Magnolia St, Huntington Beach, CA 92646			
NAME OF WELL OWNER City of Huntington Beach - Community Services Dept.		TYPE OF WELL (CHECK)	
ADDRESS 2000 Main Street		PROBE SURVEY <input type="checkbox"/>	
CITY Huntington Beach	ZIP 92648	TELEPHONE 714-536-5486	
NAME OF CONSULTING FIRM Geosyntec Consultants, Inc.		PRIVATE DOMESTIC <input type="checkbox"/>	
BUSINESS ADDRESS 2100 Main Street, Suite 150		PUBLIC DOMESTIC <input type="checkbox"/>	
CITY Huntington Beach	ZIP 92648	TELEPHONE 714-969-0800	
NAME OF DRILLING CO. Martini Drilling Corp.		C-57 LICENSE NO. 831982	
CITY Garden Grove	ZIP 92843	TELEPHONE 714-715-2715	
DIAGRAM OF WELL SITE (Use additional sheets and/or attachments)		<p><i>I hereby agree to comply in every respect with all requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones.</i></p> <p style="text-align: right;"><i>Karthik</i> 08/24/2020</p> <p>APPLICANT'S SIGNATURE DATE</p> <p style="text-align: center;">Karthik Viswanathan</p> <p>PRINT NAME</p> <p>714-465-1250 714-969-0820</p> <p>PHONE NUMBER FAX NUMBER</p>	
<input checked="" type="checkbox"/> SITE PLAN ATTACHED			
FOR ACCOUNTING USE ONLY: HSO NO. <u>406892</u> CHECK NO. <u>5803 dated 08/25/20</u> DATE <u>08/27/20</u> AMOUNT <u>\$1,009.00</u> INTL. <u>gmm</u>		DISPOSITION OF PERMIT (DO NOT FILL IN): <input checked="" type="checkbox"/> APPROVED SUBJECT TO THE FOLLOWING CONDITIONS: A. NOTIFY THIS AGENCY AT LEAST 48 HOURS <input checked="" type="checkbox"/> PRIOR TO START. <i>Notify of any changes.</i> <input type="checkbox"/> PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF THE CONDUCTOR CASING. B. <input checked="" type="checkbox"/> SUBMIT TO THE AGENCY WITHIN 30 DAYS AFTER COMPLETION OF WORK, A WELL COMPLETION REPORT AND/OR DRILLING LOGS. PLEASE REFERENCE PERMIT NO. C. <input type="checkbox"/> SECURE ALL MONITORING WELLS TO PREVENT TAMPERING. D. <input checked="" type="checkbox"/> OTHER <i>Notify when all work is complete and include the depth to 1st water.</i> <input type="checkbox"/> DENIED	
APPROVAL BY OTHER AGENCIES: JURISDICTION _____ REMARKS _____ _____ _____ _____		<input type="checkbox"/> PERMITTED BY _____ DATE _____ <input checked="" type="checkbox"/> PERMITTED BY <i>Juan Inzora</i> DATE 08.25.2020 <input type="checkbox"/> PERMITTED BY _____ DATE _____ <input type="checkbox"/> PERMITTED BY _____ DATE _____	
AUTHORIZED SIGNATURE _____ DATE _____		PERMITTED BY <i>Juan Inzora</i> DATE 08.25.2020 PRINT NAME Juan Inzora PHONE NUMBER 714-433-6287	

WHEN SIGNED BY ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A PERMIT.


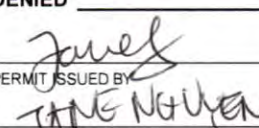
APPLICATION FOR WELL CONSTRUCTION PERMIT

RECEIVED HCA/ACCOUNTING

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION

1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

(714) 433-6000
FAX: (714) 433-6481

CITY Huntington Beach		DATE MAR 03 2021 03/02/2021	WELL PERMIT NUMBER 21-03-07 permit expires on 3/3/2022
WELL LOCATION (ADDRESS IF AVAILABLE) Edison Park - 21377 Magnolia St., Huntington Beach, CA 92646			
NAME OF WELL OWNER City of Huntington Beach - Community Services Dept.		TYPE OF WELL (CHECK)	
ADDRESS 2000 Main Street		PROBE SURVEY <input type="checkbox"/>	
CITY	ZIP	TELEPHONE	
Huntington Beach	92648	714-536-5486	
NAME OF CONSULTING FIRM Geosyntec Consultants, Inc.		PRIVATE DOMESTIC <input type="checkbox"/>	
BUSINESS ADDRESS 2100 Main Street, Suite 150		MONITORING <input type="checkbox"/>	
CITY	ZIP	TELEPHONE	
Huntington Beach	92648	714-969-0800	
NAME OF DRILLING CO. <input checked="" type="checkbox"/> ABC Liovin Drilling Inc.		PUBLIC DOMESTIC <input type="checkbox"/>	
C-57 LICENSE NO. <input checked="" type="checkbox"/> 422904		SOIL BORING <input checked="" type="checkbox"/>	
CITY	ZIP	TELEPHONE	
Signal Hill	90755	562-981-8575	
DIAGRAM OF WELL SITE (Use additional sheets and/or attachments)		IRRIGATION <input type="checkbox"/>	
		OTHER _____ <input type="checkbox"/>	
		CATHODIC <input type="checkbox"/>	
		TOTAL NUMBER 5 <input checked="" type="checkbox"/>	
		A. WELLS - SUBMIT A WELL CONSTRUCTION DIAGRAM (INCLUDE DIMENSIONS)	
		B. SOIL BORINGS AND PROBES - TOTAL DEPTH 15 feet	
		SEALING MATERIAL Hydrated Bentonite Chips <input checked="" type="checkbox"/>	
		C. PROPOSED START DATE 3/12/2021	
		I hereby agree to comply in every respect with all requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones.	
			
		3/2/2021	
		APPLICANT'S SIGNATURE DATE	
		Karthik Viswanathan	
		PRINT NAME	
		714-465-1250 714-333-4275	
		PHONE NUMBER FAX NUMBER	
<input checked="" type="checkbox"/> SITE PLAN ATTACHED			
FOR ACCOUNTING USE ONLY:		DISPOSITION OF PERMIT (DO NOT FILL IN):	
HSD NO. 410427 CHECK NO. 5826		<input checked="" type="checkbox"/> APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:	
DATE 3/3/21 AMOUNT 1009 -		A. NOTIFY THIS AGENCY AT LEAST 48 HOURS	
INTL. KV CK: 3/2/21		<input checked="" type="checkbox"/> PRIOR TO START. notify of any changes	
		<input type="checkbox"/> PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF THE CONDUCTOR CASING.	
APPROVAL BY OTHER AGENCIES:		B. <input checked="" type="checkbox"/> SUBMIT TO THE AGENCY WITHIN 30 DAYS AFTER COMPLETION OF WORK, A WELL COMPLETION REPORT AND/OR DRILLING LOGS. PLEASE REFERENCE PERMIT NO.	
JURISDICTION _____		C. <input type="checkbox"/> SECURE ALL MONITORING WELLS TO PREVENT TAMPERING.	
REMARKS _____		D. <input checked="" type="checkbox"/> OTHER notify when work is completed and include the depth to first water	
_____		<input type="checkbox"/> DENIED _____	
_____			
_____		3/2/2021	
AUTHORIZED SIGNATURE DATE		PERMIT ISSUED BY DATE	
		JANE NOYEN	
		714-433-6285	
		PRINT NAME PHONE NUMBER	

WHEN SIGNED BY ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A PERMIT.

Appendix B

SCAQMD Permit for Rule 1150



South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
COMPLIANCE PLAN

Page 1 of 3
Plan No.
612262

Certain compliance plan pursuant to Rule 306 (h) are subject to annual renewal fees unless the equipment is moved or changes operator.

Plan Issue Date: 9/11/2020

ID: 189921

Company: CITY OF HUNTINGTON BEACH
2100 MAIN ST, STE 150
HUNTINGTON BEACH, CA 92648

Site Location: 21377 MAGNOLIA ST, HUNTINGTON BEACH, CA 92646

Plan Description:

Excavation is required to perform subsurface investigation to evaluate the approximate lateral limits of existing waste along portion of the eastern edge of the Cannery Street Refuse Disposal Station at Edison Park.

Conditions :

1. This excavation shall be conducted in compliance with all plans and specifications submitted with the application under which this Rule 1150 Excavation Management Plan is issued unless otherwise noted below.
2. The excavation plan shall expire on October 31, 2021.
3. The South Coast AQMD shall be notified at least two (2) days prior to the excavation commencement and within five (5) days after its completion. The notification shall be made by emailing Rule1150Notification@aqmd.gov. The subject line of the email shall contain "Rule 1150 Notification." The body of the email shall contain the following information:
 - A. Company Name and Company ID.
 - B. Plan Number.
 - C. Site Address.
 - D. Notification Type (2 days prior or 5 days after).
 - E. Estimated Excavation Start Date and Completion Date.
 - F. Caller Name and Contact Information.
4. This excavation management plan is valid for the re-disposal of less than 50 cubic yards of refuse and contaminated material.
5. Excavation shall not be conducted whenever any excavation at the Ascon Landfill is underway.
6. Excavation shall not be conducted between the hours of 6:00 p.m. and 6:00 a.m. or on weekends and legal holidays unless otherwise approved in writing by the South Coast AQMD.

ORIGINAL



7. Excavation shall not be conducted on days when South Coast AQMD forecasts first, second, or third stage episodes for area number 18 or when the South Coast AQMD requires companies in area number 18 to implement their first, second or third stage episode plans. Episode forecasts for the following day can be obtained by calling (800) 288-7664.
8. Upwind and downwind PM monitoring shall be conducted every 60 minutes throughout the workday when soil handling or excavation is in progress at locations identified in "[Attachment A: Site Plan and Excavation Areas Edison Park - Waste Delineation Huntington Beach, California]" (sent via email on 8/19/2020 from Geosyntec). If dust levels exceed 0.05 mg/m³ above background all excavation work shall cease until mitigation measures are implemented and the levels are below 0.05 mg/m³.
9. During excavation, continuous monitoring and recording of the wind speed and directions shall be conducted using a South Coast AQMD approved handheld monitoring device.
10. Excavation shall not be conducted when the wind speed is greater than 15 mph (averaged over 15 minutes) or the wind speed instantaneously exceeds 25 mph.
11. During excavation, all working excavation areas, excavated material and unpaved roadways shall be watered down until the surface is moist and then maintained in a moist condition to minimize dust and emissions without creating a safety hazard condition.
12. If a distinct odor (level III or greater) resulting from the excavation is detected at or beyond the property line, the excavation shall cease and the approved mitigation measures implemented immediately. Excavation shall not resume until the levels return to the background level.

Odor Scale	Description of Odor Intensity
0	No odor detected.
1	Very light odor detected.
2	Light odor detected, distinguishable.
3	Moderate odor, very distinguishable.
4	Strong odor, very distinguishable, irritable.
5	Very strong odor, very distinguishable, overpowering and intolerable.

Approved mitigation measures:

- A. Excavation shall be limited to one location at a time.
- B. Limiting excavation workface area.
- C. Minimizing soil disturbance/transfer.
- D. Limiting working hours.

ORIGINAL



- E. Using long duration foams, plastic sheeting, or 6 inches of clean dirt cover.
 - F. Using water and/or odor neutralizing products containing no VOC.
 - G. Cleaning and covering of haul trucks.
 - H. Good housekeeping.
13. VOC contaminated soil (as defined by Rule 1166) shall not be spread onsite or offsite if it results in uncontrolled evaporation of VOC to the atmosphere. VOC contaminated soil shall not be used for landfill cover.
 14. During excavation, monitoring for Total Organic Compounds as methane using an Organic Vapor Analyzer (OVA) or other monitor approved by the South Coast AQMD shall be conducted continuously at the working face of the excavation and at the downwind property line or other approved locations. The maximum sustained readings (greater than 15 seconds) shall be recorded every 15 minutes. The OVA or other approved monitor shall be calibrated each day in accordance with manufacturers' specifications.
 15. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) of 500 ppmv or greater at the working face, the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.
 16. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) or 200 ppmv or greater downwind from the site at the property line (or other approved locations), the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.
 17. The excavation workface, which exposes refuse or other emission generating material to the atmosphere, shall not exceed 300 square feet, without prior written approval from the South Coast AQMD.
 18. The topsoil material that is excavated for each test pit shall be placed directly back in the test pit following the completion of the excavation of each test pit.
 19. Stockpiles shall not exceed a height greater than 8 feet and shall be maintained so as to avoid steep sides.
 20. Daily inspections shall be conducted of all covered stockpiles to ensure the integrity of the plastic cover. An inspection log shall be maintained.
 21. All refuse/emission generating materials that are excavated/exposed to the atmosphere shall either be:
 - A. Immediately covered (with either a minimum of 6" of clean soil, approved foam, or heavy duty plastic sheeting) whenever the excavation is not actively in progress, and at the end of each working day. Foam by itself shall not be used as a night cover if it is raining or rain is predicted by the National Weather Service prior to the next scheduled day of excavation.
 - B. Immediately containerized in 55 gallon drums for offsite transport and disposal.
 22. The exterior of haul trucks or trailers including the tires shall be cleaned off prior to leaving the excavation site.

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23. All materials that are listed as hazardous by a federal or state agency shall be considered "hazardous materials" for the purpose of this plan.
24. All excavated hazardous material shall be transported in such a manner as to prevent any emissions of hazardous materials.
25. All hazardous materials shall be transported in containers clearly marked as to the type of material contained and what procedures should be followed in case of accidental spills.
26. Excavated liquid hazardous materials with the potential to cause air emission shall be encapsulated or enclosed in containers with sealed lids before loading into the transport vehicles.
27. Excavation, handling, and stockpiling activities shall comply with the applicable requirements of Rule 403.
28. All records of excavation working hours monitoring results, daily amounts of materials excavated and relocated or hauled offsite, and other records required by this compliance plan shall be kept on file for at least two years and made available to the South Coast AQMD upon request.
29. Mitigation measures, other than those indicated in these conditions, which are deemed appropriate by South Coast AQMD personnel as necessary to protect the comfort, repose, health, and safety of the public, shall be implemented upon request.
30. This compliance plan or a copy of this compliance plan shall be present at the excavation site.

ORIGINAL



NOTICE

This plan does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

A copy of this plan shall be displayed in the vicinity of the equipment subject to this plan.

Executive Officer

A handwritten signature in black ink that reads "Amir Dejbaksh".

By AMIR DEJBAKSH

9/11/2020

ORIGINAL

Appendix C

Test Pit Logs

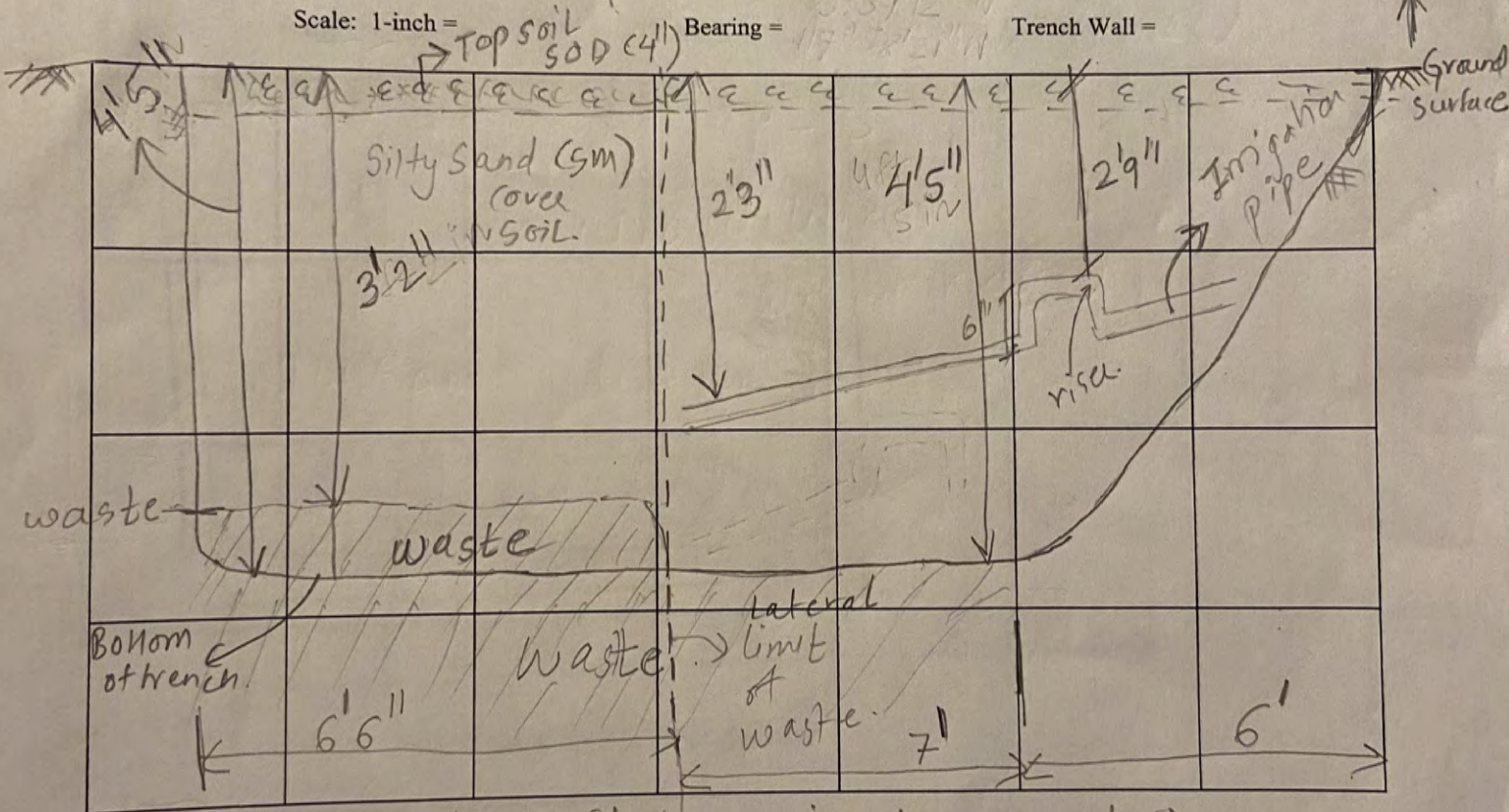
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch =

Bearing =

Trench Wall =



Waste: mostly AC debris (dark grey in color, no odor)

Test Pit Number: TP-1

Date: 9/24/2020

Geosyntec[®]
consultants

Location: Edison Park

Equipment: CASE 580
Super N

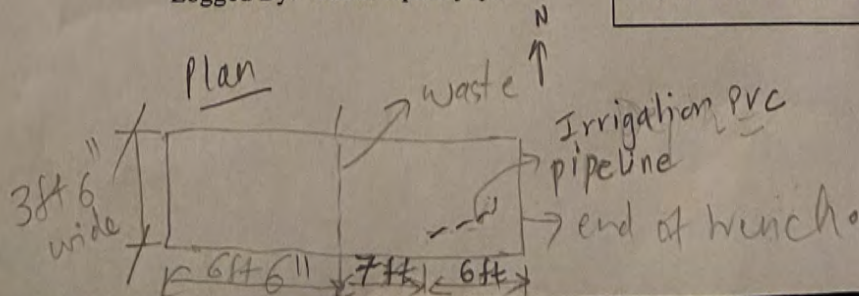
Project: Edison Park Waste Delineation

Northing, Easting:

33° 39' 12" N
117° 58' 21" W

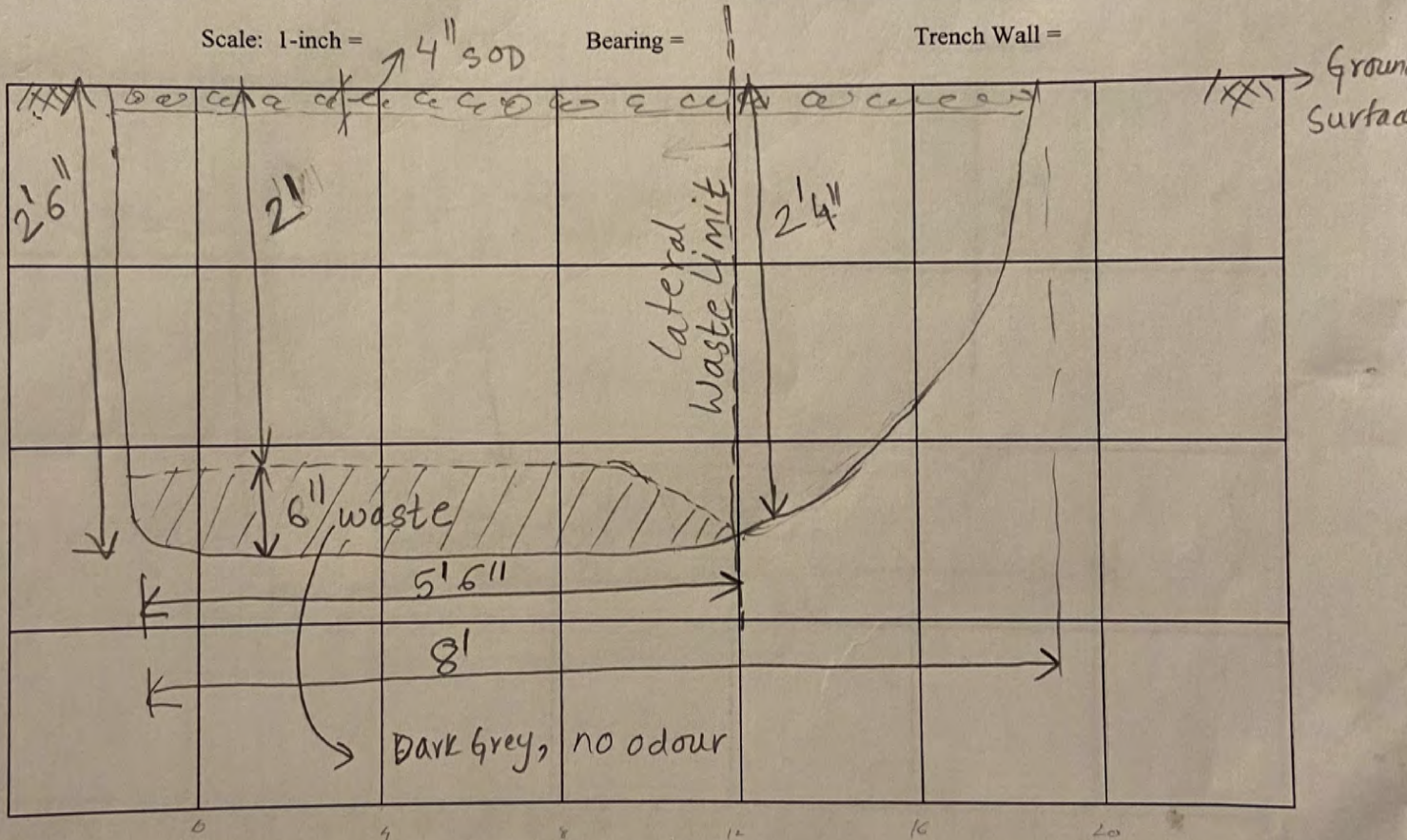
Logged By: Sneha Upadhyaya

Project No.: HL1685A



TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	N ↑	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =				



Test Pit Number: **TP-2**

Date: **9/24/2020**

Geosyntec[®]
consultants

Location: Edison Park

Equipment: **CASE 580, Super N**

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

iPhone GPS: 33° 39' 10" N
117° 58' 22" W
(at the ^{horz} waste limit)

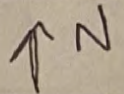
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

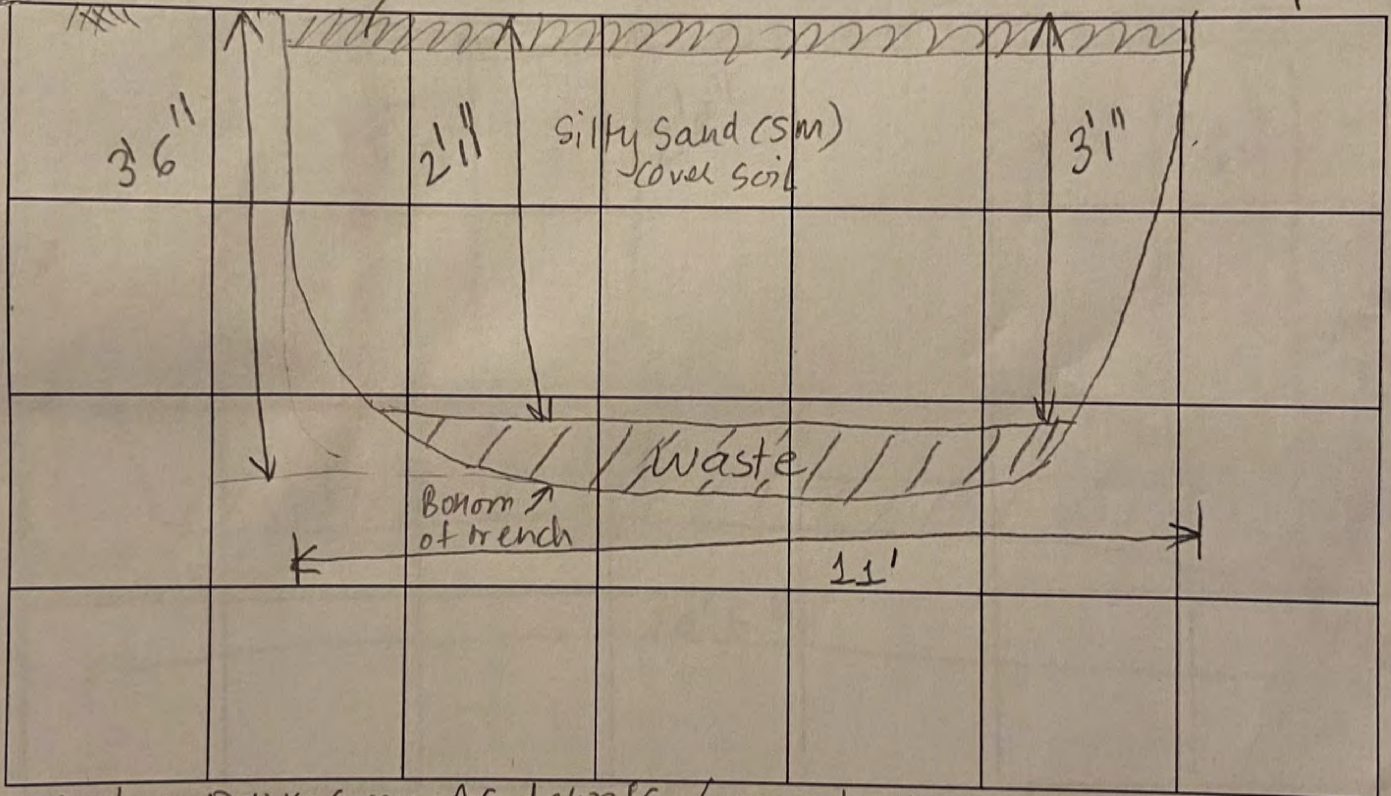
Scale: 1-inch = 4" SOD

Bearing =

Trench Wall =



Ground surface



waste: Dark Grey, AC debris (no odor)

Test Pit Number: TP-3

Date: 9/24/2020

Geosyntec
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Note: Excavation stopped due to proximity to ~~at~~ ^{marked} electric utility line (2' away from the eastern edge of trench). To continue tomorrow 2 ft away from the marked utility line.

TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

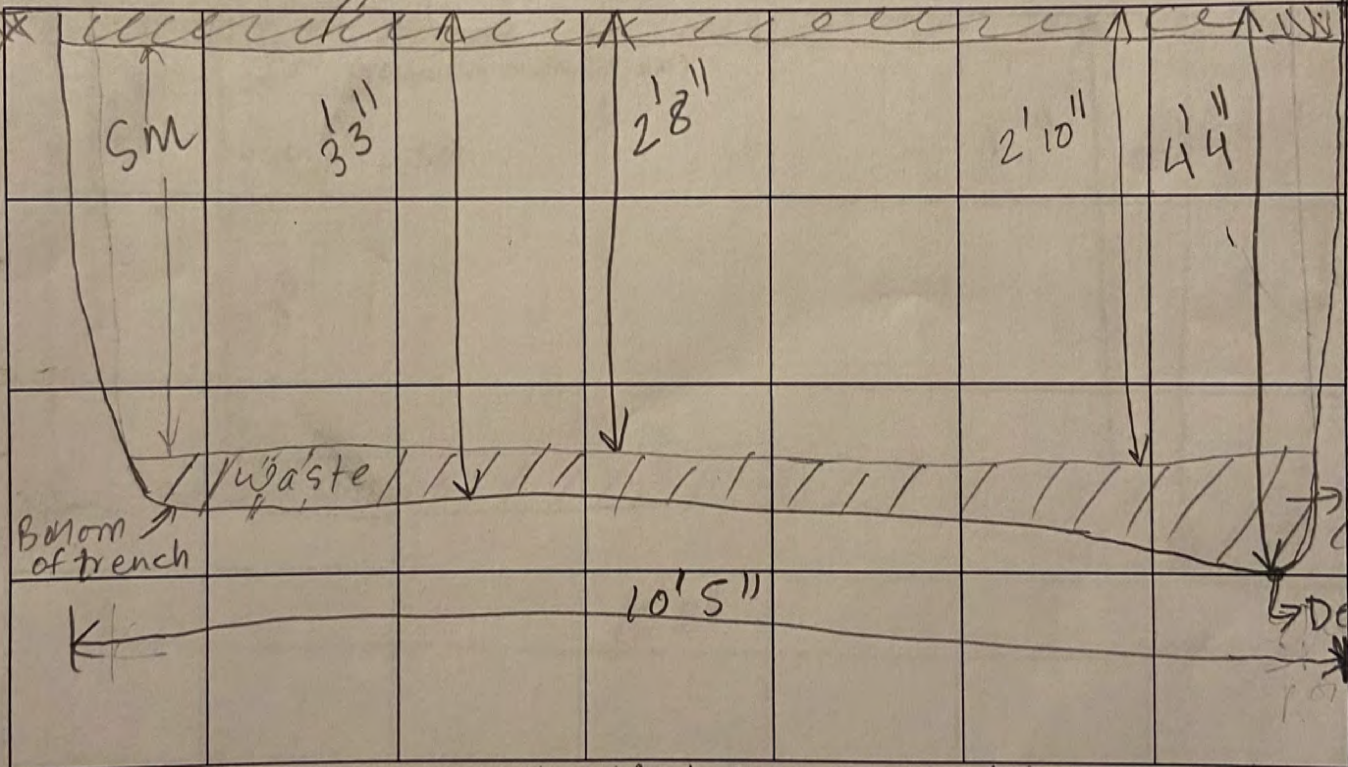
Scale: 1-inch = 4'50D

Bearing =

Trench Wall =



concrete slab



waste: Dark grey, mostly Asphalt-concrete debris, no odor.

Test Pit Number: TP-3 (cont...) Date: 9/25/2020

Geosyntec
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Note: Couldn't determine the lateral extent of waste. (Reached the concrete slab on the east side)

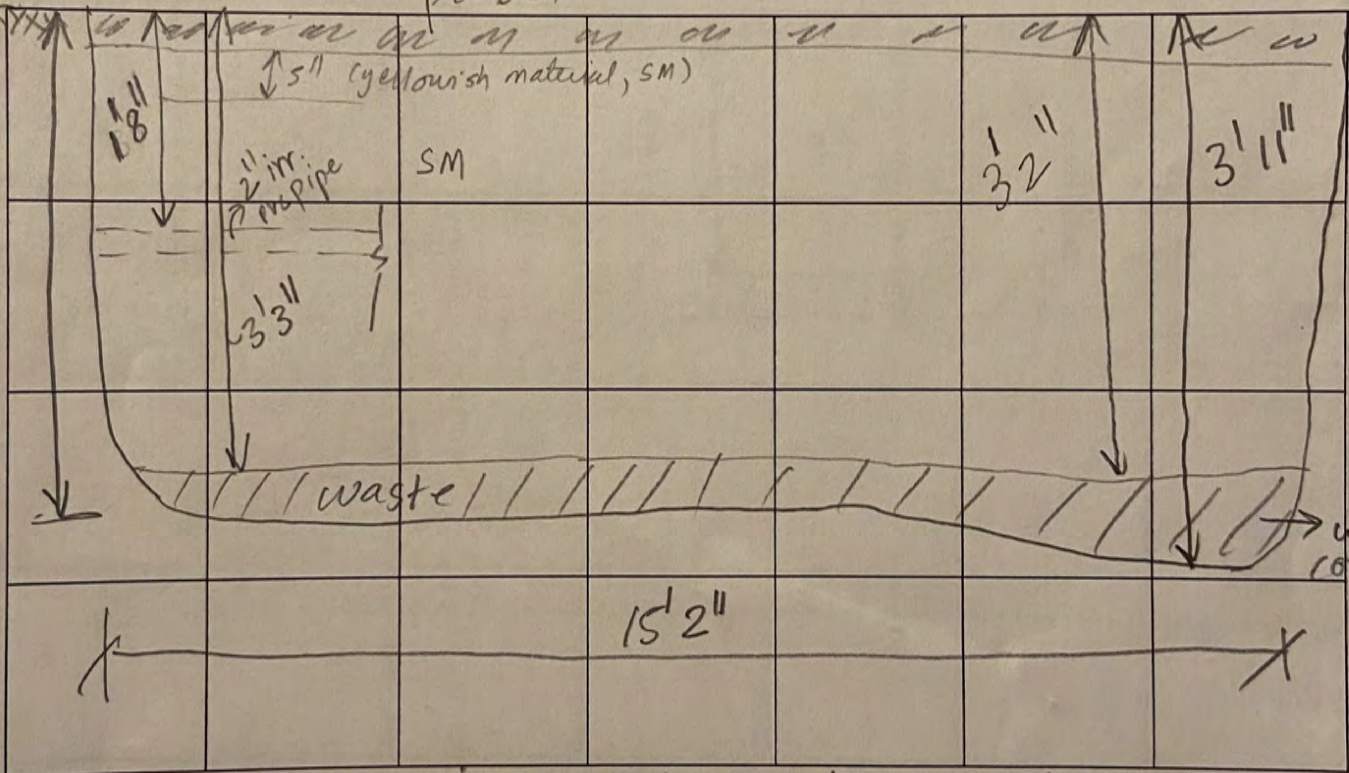
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch =

Bearing =

French Wall =



Notes: lateral limit of waste could not be found (reached close to concrete slab and utility lines)

Test Pit Number: TP-4

Date: 9/25/2020

Geosyntec
consultants

Location: Edison Park

Equipment: 580 CASE
Super N

Project: Edison Park Waste Delineation

Northing, Easting:
33° 39' 7" N
117° 58' 21" W

Logged By: Sneha Upadhyaya

Project No.: HL1685A

waste: Dark grey, AC debris (chunks of AC observed)

Top soil: silty sand (SM); some areas w/ loose clean sand (SP)

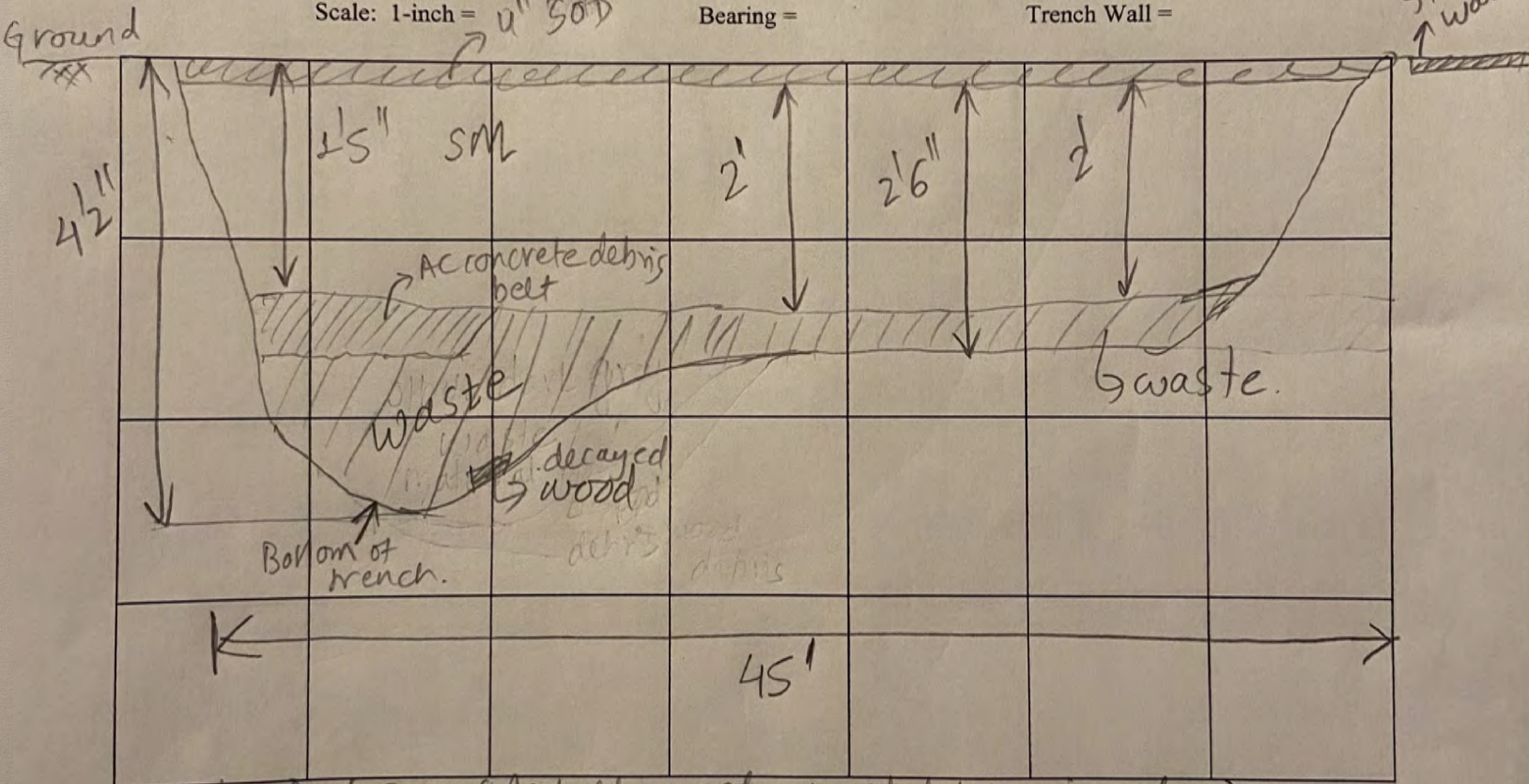
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch = 2' 30"

Bearing =

Trench Wall =



Waste: Dark grey CA asphalt concrete, wood debris (with odor)

Test Pit Number: TP-5

Date: 9/25/2020

Geosyntec
consultants

Location: Edison Park

Equipment: CASE 580
Super N

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

33° 39' 5" N
117° 58' 21" W

TEST PIT LOG

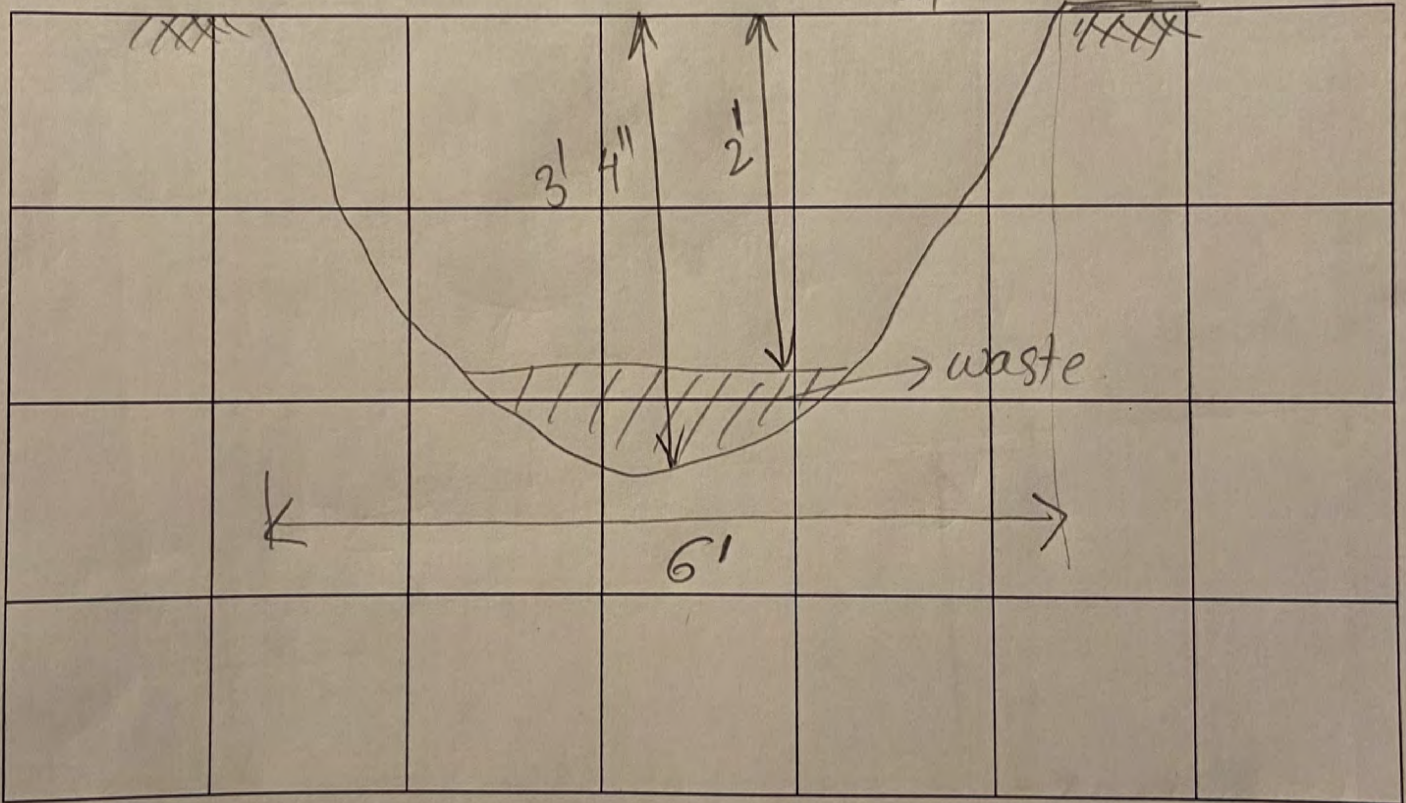
CTP-5, pothole

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
			Pothole 35' from the edge of TP-5 towards the east (past the sidewalk lamp post)		
		TD =			

Scale: 1-inch =

Bearing =

Antenna Trench Wall =
box.



Test Pit Number: TP-5 pothole

Date: 9/25/2020

Geosyntec[®]
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Appendix D

Borings Logs with Key

KEY SHEET - CLASSIFICATIONS AND SYMBOLS

GS FORM:
KEY/SYMBOLS 01/04

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N60 VALUES *

	N60 VALUE * (BLOWS/FT)	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TONS/SQ FT)		N60 VALUE * (BLOWS/FT)	RELATIVE DENSITY
FINE GRAINED SOILS	0 - 2	VERY SOFT	<0.25	COARSE GRAINED SOILS	0 - 4	VERY LOOSE
	3 - 4	SOFT	0.25 - 0.50		5 - 10	LOOSE
	5 - 8	FIRM	0.50 - 1.00		11 - 30	MEDIUM DENSE
	9 - 15	STIFF	1.00 - 2.00		31 - 50	DENSE
	16 - 30	VERY STIFF	2.00 - 4.00		>50	VERY DENSE
	31 - 50	HARD	>4.00			
	>50	VERY HARD				

* ASTM D 1586; NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 IN. O.D., 1.4 IN. I.D. SAMPLER ONE FOOT, CORRECTED FOR HAMMER EFFICIENCY.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS		SYMBOLS	DESCRIPTIONS	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GM	SILTY GRAVELS, GRAVEL- SAND-SILT MIXTURES	
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GRAVELS WITH FINES	GC	CLAYEY GRAVELS, GRAVEL- SAND-CLAY MIXTURES
		CLEAN SANDS	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	SP	
MORE THAN 50% OF MATERIAL COARSER THAN NO. 200 SIEVE SIZE	SANDS WITH FINES	SM	SILTY SANDS, SAND-SILT MIXTURES	
		SC	CLAYEY SANDS, SAND-CLAY MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	MORE THAN 50% OF MATERIAL FINER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT	

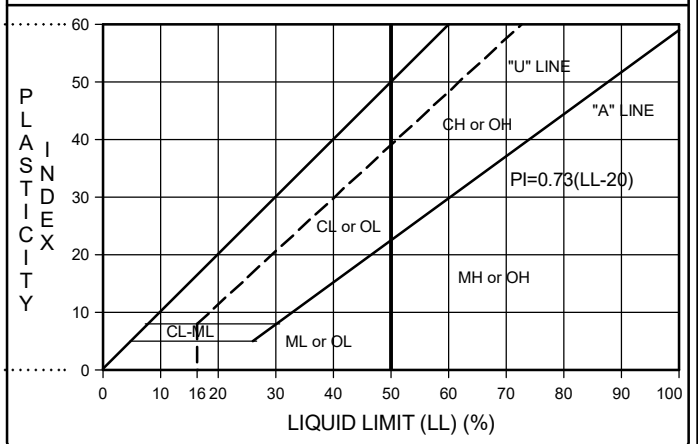
NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

PARTICLE SIZE IDENTIFICATION

USCS (SOILS ONLY) *		SEDIMENTARY (ROCK ONLY)	
BOULDER	>300 mm	BOULDER	>256 mm
COBBLE	75 - 300 mm	COBBLE	64 - 256 mm
GRAVEL: COARSE	20 - 75 mm	PEBBLE	4 - 64 mm
GRAVEL: FINE	4.75 - 20 mm	GRANULE	2 - 4 mm
SAND: COARSE	2 - 4.75 mm	SAND: V. COARSE	1 - 2 mm
SAND: MEDIUM	0.42 - 2 mm	SAND: COARSE	0.5 - 1 mm
SAND: FINE	0.074 - 0.42 mm	SAND: MEDIUM	0.25 - 0.5 mm
		SAND: FINE	0.125 - 0.25 mm
SILT/CLAY	<0.074 mm	SAND: V. FINE	0.063 - 0.125 mm
		SILT	0.004 - 0.063 mm
		CLAY	<0.004 mm

* WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES
* POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING
PERCENTAGE OF PARTICLE TYPE IN DECREASING ORDER OF PARTICLE SIZE (GRAVEL, SAND, FINES), BASED ON VISUAL OBSERVATION

PLASTICITY CHART



OTHER MATERIAL SYMBOLS

	Conglomerate		Sandy Claystone		Marker Bed
	Sandstone		Granitic/Intrusive		
	Silty Sandstone		Volcanic/Extrusive		Artificial Fill
	Clayey Sandstone		Metamorphic		Refuse
	Sandy Siltstone		Limestone		Concrete/Asphalt
	Siltstone		Dolomite		
	Claystone		Glacial Till		
	Clayey Siltstone/ Silty Claystone		Landslide Debris		

WELL SYMBOLS

	CONCRETE
	GROUT
	BENTONITE SEAL
	TRANSITION SAND
	SAND PACK
	GRAVEL PACK
	NATIVE/SLUFF
	CENTRALIZER

SAMPLE TYPE AND OTHER SYMBOLS

	BULK SAMPLE		Water Level at Time Drilling, or as Shown
	STANDARD PENETRATION TEST		Static Water Level
	MODIFIED CALIFORNIA SAMPLE		Pump Inlet
	CORE SAMPLE		Loss of Drilling Fluid
	SHELBY TUBE		MSL: Mean Sea Level
	DRIVE SAMPLE		AGS: Above Ground Surface
			BGS: Below Ground Surface
			BTOC: Below Top of Casing
			HSA: Hollow Stem Auger



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-1
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 11
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
10	Silty SAND (SM): brown; dry; fine sand; [0,80,20]; non-plastic.		10							16:20	Hand augered to 5 ft bgs.
5	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							16:30	
10	Silty SAND (SM): grey; wet; fine sand; [0,80,20]; low plastic.		0							16:45	First depth to groundwater.
11.5	Terminate boring at 11.5-ft below ground surface (bgs).									16:55	

CONTRACTOR ABC Livoin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65306
EASTING -117.97278
COORDINATE SYSTEM:

REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-2
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 7
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)	
	1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)									1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.		5						15:30	Hand augered to 5 ft bgs.
5	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.								15:35	



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-3
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 7
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane		
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)	
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.		5							13:55	Hand augered to 5 ft bgs.	
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							14:05		
5			0									
10			-5								14:20	First depth to groundwater.
15			-10								14:30	
20	Poorly-graded SAND with Silt (SP-SM): grey; wet; predominantly fine sand; [0,90,10]; non-plastic.		-15								14:40	
	Terminate boring at 21.5-ft below ground surface (bgs).		-15								14:45	
25			-20									
30												

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livoin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97250
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-4
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 2
ELEVATION DATA:
GROUND SURF. 5
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.									10:50	Hand augered to 5 ft bgs.
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.									10:55	
5			0							11:10	First depth to groundwater.
10			-5								
15			-10							11:15	Hard drilling observed.
20			-15							11:20	
25			-20							11:30	Hard drilling observed.
30			-25								

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97306
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



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BORING HSA-4
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 2 OF 2
ELEVATION DATA:
GROUND SURF. 5
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)	
		[Hatched Pattern]								12:00 Very hard drilling, little to no spoils.
35	Terminate boring at 34-ft below ground surface (bgs) due to refusal.		-30							12:40 Refusal; auger plugged with wood. Wood chunks observed in the spoils as the auger was retracted.
40			-35							
45			-40							
50			-45							
55			-50							
60			-55							

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97306
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-5
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 2
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.									07:45	Hand augered to 5 ft bgs.
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							08:00	
5	organic odor.									08:20	
10										08:25	First depth to groundwater.
15	becomes wet.									08:30	
20											
25											
30											

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65278
EASTING -117.97333
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
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Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-5
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 2 OF 2
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)	
35			-25							09:00 Hard drilling (rattling of auger) observed.
										09:30 No recovery. Hard drilling observed.
40			-30							09:32 No recovery.
										09:35
										09:45
45			-35							
50			-40							
55			-45							
60			-50							

Silty SAND (SM): grey; wet; fine sand; [0,80,20]; non-plastic.
Terminate boring at 41.5-ft below ground surface (bgs).

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya
NORTHING 33.65278
EASTING -117.97333
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

KEY SHEET - CLASSIFICATIONS AND SYMBOLS

GS FORM:
KEY/SYMBOLS 01/04

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N60 VALUES *

	N60 VALUE * (BLOWS/FT)	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TONS/SQ FT)		N60 VALUE * (BLOWS/FT)	RELATIVE DENSITY
FINE GRAINED SOILS	0 - 2	VERY SOFT	<0.25	COARSE GRAINED SOILS	0 - 4	VERY LOOSE
	3 - 4	SOFT	0.25 - 0.50		5 - 10	LOOSE
	5 - 8	FIRM	0.50 - 1.00		11 - 30	MEDIUM DENSE
	9 - 15	STIFF	1.00 - 2.00		31 - 50	DENSE
	16 - 30	VERY STIFF	2.00 - 4.00		>50	VERY DENSE
	31 - 50	HARD	>4.00			
	>50	VERY HARD				

* ASTM D 1586; NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 IN. O.D., 1.4 IN. I.D. SAMPLER ONE FOOT, CORRECTED FOR HAMMER EFFICIENCY.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS		SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS LITTLE OR NO FINES	GW WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES APPRECIABLE AMOUNT OF FINES	GM SILTY GRAVELS, GRAVEL- SAND-SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS LITTLE OR NO FINES	SW WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES APPRECIABLE AMOUNT OF FINES	SM SILTY SANDS, SAND-SILT MIXTURES
		SC CLAYEY SANDS, SAND-CLAY MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50	ML INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50	MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT
			CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS		PT PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT	

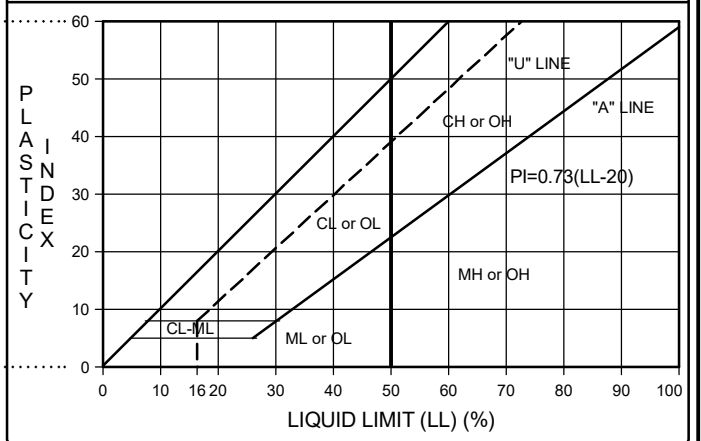
NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

PARTICLE SIZE IDENTIFICATION

USCS (SOILS ONLY) *		SEDIMENTARY (ROCK ONLY)	
BOULDER	>300 mm	BOULDER	>256 mm
COBBLE	75 - 300 mm	COBBLE	64 - 256 mm
GRAVEL: COARSE	20 - 75 mm	PEBBLE	4 - 64 mm
GRAVEL: FINE	4.75 - 20 mm	GRANULE	2 - 4 mm
SAND: COARSE	2 - 4.75 mm	SAND: V. COARSE	1 - 2 mm
SAND: MEDIUM	0.42 - 2 mm	SAND: COARSE	0.5 - 1 mm
SAND: FINE	0.074 - 0.42 mm	SAND: MEDIUM	0.25 - 0.5 mm
SILT/CLAY	<0.074 mm	SAND: FINE	0.125 - 0.25 mm
		SAND: V. FINE	0.063 - 0.125 mm
		SILT	0.004 - 0.063 mm
		CLAY	<0.004 mm

* WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES
* POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING
PERCENTAGE OF PARTICLE TYPE IN DECREASING ORDER OF PARTICLE SIZE (GRAVEL, SAND, FINES), BASED ON VISUAL OBSERVATION

PLASTICITY CHART



OTHER MATERIAL SYMBOLS

Conglomerate	Sandy Claystone	Marker Bed
Sandstone	Granitic/Intrusive	
Silty Sandstone	Volcanic/Extrusive	Artificial Fill
Clayey Sandstone	Metamorphic	Refuse
Sandy Siltstone	Limestone	Concrete/Asphalt
Siltstone	Dolomite	
Claystone	Glacial Till	
Clayey Siltstone/ Silty Claystone	Landslide Debris	

WELL SYMBOLS

CONCRETE
GROUT
BENTONITE SEAL
TRANSITION SAND
SAND PACK
GRAVEL PACK
NATIVE/SLUFF
CENTRALIZER

SAMPLE TYPE AND OTHER SYMBOLS

BULK SAMPLE	Water Level at Time Drilling, or as Shown
STANDARD PENETRATION TEST	Static Water Level
MODIFIED CALIFORNIA SAMPLE	Pump Inlet
CORE SAMPLE	Loss of Drilling Fluid
SHELBY TUBE	MSL: Mean Sea Level
DRIVE SAMPLE	AGS: Above Ground Surface
	BGS: Below Ground Surface
	BTOC: Below Top of Casing
	HSA: Hollow Stem Auger



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-2A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	CONCRETE		8							13:05	Hand augered to 5 ft bgs.
	Silty SAND (SM): brown; moist; fine sand; [5,80,15]; non-plastic; trace 1/4-in. to 1/2-in. gravel.		7							13:15	
5	Fat CLAY (CH): dark grey; moist; trace fine sand; [5,5,90]; medium to high plasticity; slight organic odor; trace brick debris pieces.		6								13:25
			5								
			4								13:40
			3								
			2								13:45
			1								
			0								13:50
			-1				100				
	Fat CLAY with Sand (CH): dark grey; moist; fine sand; [0,20,80]; medium to high plasticity.		-2								
			-3								
			-4								
			-5								
			-6								
			-7				100				
			-8								
			-9								
			-10								
			-11								
			-12								
			-13								
			-14								
			-15								
			-16								
			-17								
			-18								
			-19								
			-20								
			-21								
	Sandy SILT (ML): dark grey; wet; fine sand; [0,40,60]; none to low plasticity. Terminate boring at 16.5-ft below ground surface (bgs).		-7								
			-8								
			-9								
			-10								
			-11								
			-12								
			-13								
			-14								
			-15								
			-16								
			-17								
			-18								
			-19								
			-20								
			-21								

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya
NORTHING 33.652273
EASTING -117.972310
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Groundwater was not encountered. Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-3A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 8
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	CONCRETE		7							11:20	
	Silty SAND (SM): brown; moist; fine sand; [5,80,15]; non-plastic; trace 1/4-in. to 1/2-in. gravel.		6							11:35	Hand augered to 5 ft bgs.
5	Fat CLAY (CH): dark grey; moist; trace fine sand; [0,5,95]; medium to high plasticity; slight organic odor; trace asphalt debris pieces.		5								
			4								
			3							11:45	
			2								
			1								
			0								
			-1								
			-2					100		12:00	
10	Fat CLAY with Sand (CH): dark grey; moist; fine sand; [0,25,75]; medium to high plasticity.		-3								
			-4								
			-5								
			-6								
			-7								
15	Silty SAND (SM): grey; wet; fine sand; [0,60,40]; none to low plasticity.		-8					100		12:10	First depth to groundwater.
			-9							12:20	
	Terminate boring at 16.5-ft below ground surface (bgs).		-10								
			-11								
			-12								
			-13								
			-14								
			-15								
			-16								
			-17								
			-18								
			-19								
			-20								
			-21								
			-22								

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21

CONTRACTOR ABC Liovin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.652136
EASTING -117.972250
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-4A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	CONCRETE		8							14:30	Hand augered to 5 ft bgs.
	Silty SAND (SM): brown; moist; fine sand; [5,75,20]; non-plastic; trace 1/4-in. to 1/2-in. gravel.		7							14:40	
	Fat CLAY (CH): dark grey; moist; trace fine sand; [5,5,90]; medium to high plasticity; slight organic odor; wood debris; trace brick debris pieces. few brick debris pieces.		6								
5	Fat CLAY (CH): dark grey; moist; few fine sand; [0;10;90]; medium to high plasticity; trace sea shells.		4							14:50	
	becomes wet; [0;5;95].		-1								
	Sandy SILT (ML): grey; wet; fine sand; (0;40;60); low to medium plasticity.		-2				100			15:15	
			-5								First depth to groundwater.
15	Fat CLAY (CH): grey; wet; few fine sand; [0,10,90]; medium to high plasticity.		-6				100			15:25	
	Terminate boring at 16.5-ft below ground surface (bgs).		-8							15:30	
20			-10								
25			-15								
30			-20								

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21

CONTRACTOR ABC Liovin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.651973
EASTING -117.972290
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-5A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	CONCRETE		8							16:00	Hand augered to 5 ft bgs.
	Silty SAND (SM): brown; moist; fine sand; [5,75,20]; none to low plasticity; trace 1/4-in. to 1/2-in. gravel.		7							16:15	
5	Fat CLAY (CH): dark grey; moist; trace fine sand; [0,5,95]; medium to high plasticity; slight organic odor.		6							16:25	First depth to groundwater.
			5								
			4								
			3								
			2								
			1								
			0								
10			-1					100		16:45	
			-2								
			-3								
			-4								
			-5								
			-6					100		16:50	
15	Sandy SILT (ML): dark grey; wet; fine sand; (0;30;70); low to medium plasticity.		-7								
	Terminate boring at 17.0-ft below ground surface (bgs).		-8							17:00	
			-9								
			-10								
			-11								
			-12								
			-13								
			-14								
			-15								
			-16								
			-17								
			-18								
			-19								
			-20								
			-21								

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.651951
EASTING -117.972360
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-7A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 10
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	CONCRETE		9							07:50	Hand augered to 5 ft bgs.
	Silty SAND (SM): brown; moist; fine sand; [5,80,15]; none to low plasticity; trace 1/4-in. to 1/2-in. gravel.		8							08:00	
5	Fat CLAY (CH): dark grey; moist; trace fine sand; [0,5,95]; medium to high plasticity; slight organic odor.		7								First depth to groundwater.
			6							08:10	
10	Sandy SILT (ML): dark brown; wet; fine sand; [0,40,60]; low to medium plasticity.		0				100			08:25	
	Fat CLAY (CH): grey; wet; few fine sand; [0,10,90]; medium to high plasticity.		-1								
			-2								
15			-3								
			-4								
			-5								
			-6								
			-7								
			-8								
	Terminate boring at 18.0-ft below ground surface (bgs).		-9							08:35	
20			-10								
			-11								
			-12								
			-13								
25			-14								
			-15								
			-16								
			-17								
			-18								
			-19								
30			-20								

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.652178
EASTING -117.972520
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-8A
START DRILL DATE Mar 12, 21
FINISH DRILL DATE Mar 12, 21
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685B

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 10
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)	
	CONCRETE		9							09:50
	Silty SAND (SM): brown; moist; fine sand; [0,85,15]; non-plastic.		8							10:10
5	Fat CLAY (CH): dark grey; moist; trace fine sand; [0,5,95]; medium to high plasticity; slight organic odor.		7							
			6							
			5							
			4							10:15
			3							
			2							
			1							
10	Sandy SILT (ML): dark gray; wet; fine sand; (0;40;60); low to medium plasticity.		0				100			10:20
			-1							
			-2							
			-3							
			-4							
15	Silty SAND (SM): grey; wet; fine to medium sand; [0;80;20]; none to low plasticity.		-5				100			10:30
			-6							
	Terminate boring at 16.5-ft below ground surface (bgs).		-7							10:35
			-8							
			-9							
			-10							
			-11							
			-12							
			-13							
			-14							
			-15							
25			-16							
			-17							
			-18							
			-19							
			-20							

02-GEOTECH1 HL1685B.GPJ GEOSNTEC.GDT 4/9/21

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.652181
EASTING -117.972360
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

Appendix E

Daily Field Reports



DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		

Time	Field Work Activities
0700	Arrived on site and met with GEOVision field crew Martin Garcia and Christopher Collins.
0705	Held a brief tailgate safety meeting. GEOVision crew acknowledged the THA.
0710	Performed a site walk with GEOVision crew to observe the proposed investigation locations (HSA-1 through HSA-5; TP-1 through TP-5).
0730	GEOVision started utility clearance survey at location of TP-1 test pit. Some utilities (likely irrigation and main water line) were encountered within 5 ft of TP-1. GEOVision marked a new location 14 ft north of the existing TP-1 location.
0800	GEOVision performed utility clearance survey at location of HSA-1 boring. No conflicts were found at HSA-1 location.
0810	GEOVision performed utility clearance survey at location of TP-2. Electrical and irrigation utility lines were located within 3 ft of TP-2 location. GEOVision marked a new TP-2 location 10 ft south of the existing location.
0820	GEOVision performed utility clearance survey at location of HSA-5 boring. No conflicts were found at HSA-5 location.
0835	GEOVision performed utility clearance survey at locations of TP-3 and HSA-2. Some utilities (likely irrigation lines) were encountered within 5 ft of HSA-2 and TP-3 location. GEOVision marked a new HAS-2 location 3 ft east of the existing location.
0850	GEOVision performed utility clearance survey at location of HSA-4. Some utilities were encountered within 2 ft of the HSA-4 location. GEOVision marked a new location 3 ft east of the existing location.
0900	GEOVision performed utility clearance survey at locations of TP-4 and HSA-3. Electrical and irrigation utility lines were encountered within 5-10 ft of TP-4 and HSA-3 locations. No conflict at HSA-3. GEOVision marked a new location 15 ft southwest of the existing TP-4 location.
0920	GEOVision performed utility clearance survey at TP-5 location. No conflicts were found at TP-5.
0945	Geosyntec and GEOVision departed the site for the day.





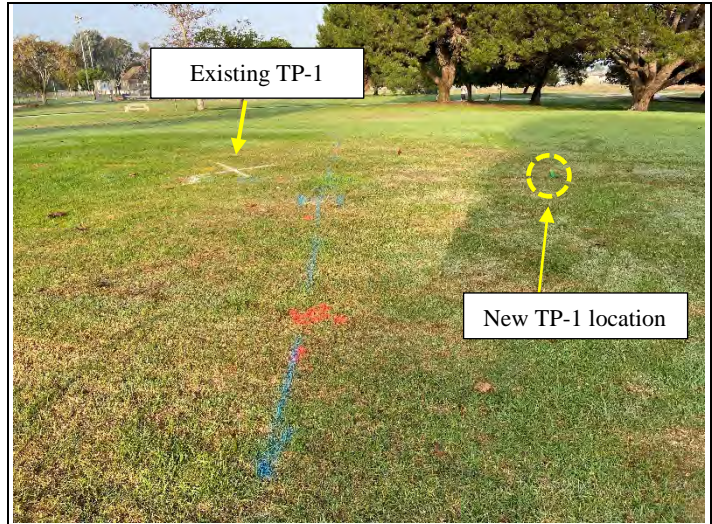
DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		



GEOVision crew performing utility clearance survey at location TP-1 (looking west)



Utility markings at TP-1 and the new TP-1 location (looking west)



Location HSA-1 cleared of utilities (looking north)



GEOVision crew performing utility clearance survey at location TP-2 (looking north)

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:001

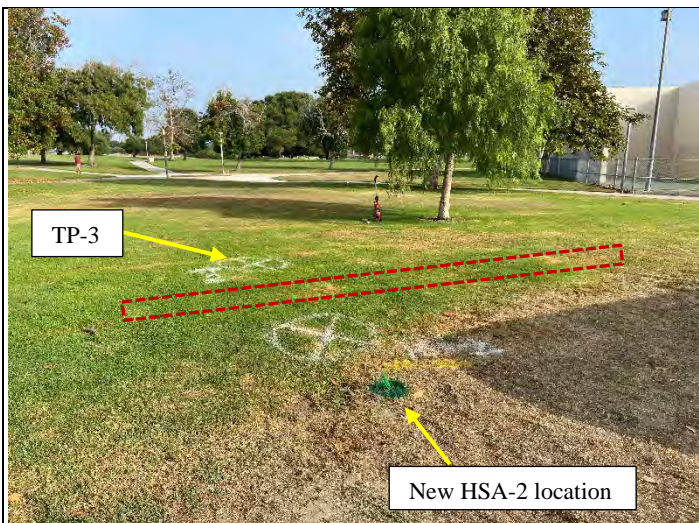
PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		



Electrical utility markings at existing TP-2 and the new TP-2 location (looking north)



Location HSA-5 cleared of utilities (looking south)



Utility markings at existing TP-3 and HSA-2 locations and the new HSA-2 location (looking northwest)



Utility markings at existing HSA-4 location and the new HSA-4 location (looking northwest)

Printed Name: Sneha Upadhyaya

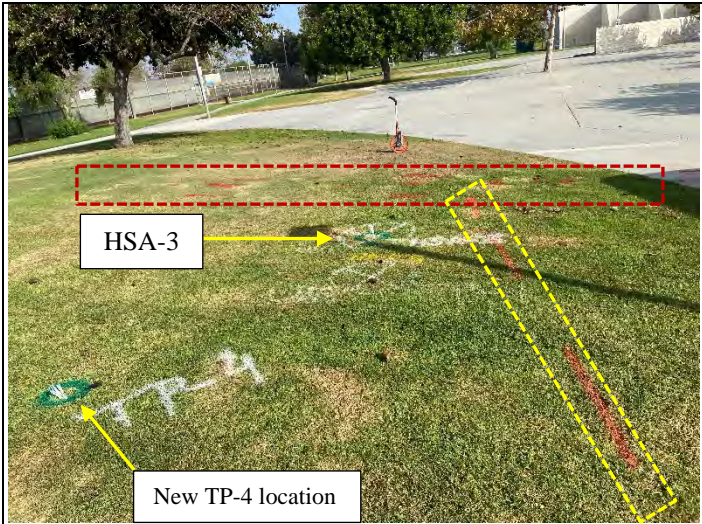
Signature



DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		



Utility markings (electrical and irrigation lines) at TP-4 and HSA-3 locations and the new TP-4 location (looking north)



Location TP-5 cleared of utilities (looking northwest). The anomalies located are likely roots.



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		

Time	Field Work Activities
0645	Geosyntec air monitoring staff Eric Garcia arrived on site.
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0700	Met with American Integrated Services (AIS) field crew (Geoff Harris, Antonio Sanchez, Jose Avila, and Brandon Duncan) and Geosyntec Air Monitoring field staff (Eric Garcia). Discussed the plan for the day with AIS field crew.
0710	AIS unloaded the drums at the parking lot.
0720	AIS mobilized the field equipment to proposed TP-1 exploratory test pit location. Plywood panels were placed on the ground to prevent potential rutting of the vegetation from the backhoe tires.
0730	Conducted a brief tailgate safety meeting.
0740	Fence panels with wind screens were placed around the excavation area. Plastic tarps were placed for temporarily staging the excavated soil.
0745	Started excavation activities at TP-1 location using a backhoe (CASE 580 Super N) with 36 inches wide bucket. About 4 inches of sod and topsoil was removed carefully.
0750	Continued excavating through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)]
0810	Encountered a 1 ft long metallic object at 2 ft below the ground surface (bgs).
0820	Encountered waste at approximately 3.5 ft bgs. Continued excavation to delineate the lateral limit of the waste.
0825	Geosyntec engineer Karthik Viswanathan arrived on-site.
0830	Encountered an underground irrigation pipe at approximately 3.0 ft bgs(1.5-inch PVC pipe). Minor damage caused during excavation was observed on the pipe.
0900	A section of the irrigation pipe was cut for repair. Excavation was continued towards the east to delineate the lateral limit of waste.
0930	Observed the lateral limit of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
0950	AIS repaired the damaged section of the irrigation pipe.
1010	AIS went to fill up the water trailer.
1050	Started backfilling the test pit (TP-1) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1130	City of Huntington Beach personnel (Farhad Bolourchi) arrived on-site. Geosyntec provided an update to Mr. Bolourchi on TP-1 excavation activities.
1140	Geosyntec Senior Engineer (Yonas Zemuy) arrived on-site. Mr. Zemuy and Mr. Bolourchi performed a site walk.
1200	Backfilling activities were completed at TP-1.
1210	AIS field crew stopped for lunch break.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		

1250	Mobilized to TP-2 location.
1300	Excavation activities started at TP-2 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1315	Encountered waste at approximately 2 ft bgs at TP-2. Continued excavation towards the east to delineate the lateral limit of the waste.
1320	Observed the lateral limit of the waste at TP-2. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
1330	Started backfilling the test pit (TP-2) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1350	Backfilling activities were completed at TP-2.
1355	Mobilized to TP-3 location.
1410	Excavation activities started at TP-3 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1420	Encountered waste at approximately 3 ft bgs at TP-3. Continued excavation towards the east to delineate the lateral limit of the waste.
1430	Could not reach the lateral limit of the waste due to proximity to electric utility lines toward the east. Geosyntec field staff contacted Karthik Viswanathan (Geosyntec) and discussed about backfilling the excavated test-pit at TP-3 and starting a new test-pit the following day at 2 ft away from the marked electric lines (towards the east).
1440	Started backfilling the test pit (TP-3) with the excavated materials. The excavated material was returned into the test-pit and compacted to a firm condition.
1510	Backfilling activities were completed at TP-3. AIS to excavate a new test-pit at TP-3 tomorrow.
1515	AIS started moving the field equipment to the parking lot. Drums, plywood panels, and other equipment were secured within the fence panels at the parking lot.
1520	Geosyntec air monitoring staff Eric Garcia departed the site.
1545	Geosyntec field staff Sneha U. departed the site.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Start of excavation at TP-1 location (looking south).



Waste encountered at TP-1. Also indicated is the exposed underground irrigation pipeline (looking southeast).



Lateral limit of waste at TP-1 (looking south)



Backfilling at TP-1(looking northeast)



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Start of excavation at TP-2 location (looking north).



Waste encountered at TP-2 and the lateral limit of waste (looking northeast).



Backfilling at TP-2; placing the vegetation back (looking northeast).



Start of excavation at TP-3 location (looking southeast).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Waste encountered at TP-3 (looking east).



Backfilling at TP-3 (looking southeast).



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya and Eric Garcia arrived on site.
0700	Met with American Integrated Services (AIS) field crew and mobilized the equipment to TP-3 location to resume trenching activities at TP-3. Note that the trenching activities were discontinued at TP-3 on September 24 due to proximity to marked electric utility line.
0710	Plywood panels were placed on the ground to prevent potential rutting of the vegetation from the backhoe tires. Fence panels with wind screens were placed around the excavation area. Plastic tarps were placed for temporarily staging the excavated soil.
0715	Started excavation activities at TP-3 location 2 ft east of the marked electric utility line. Approximately 4 inches of sod and topsoil was removed carefully.
0720	Encountered the electric line at approximately 3.5 ft east of the marked utility line (1.5 ft from the western edge of the trench). Continued trenching from 1.5 ft away from the actual electric line (towards east).
0730	Encountered waste at about 3 ft bgs (dark grey Asphalt concrete debris, no odor). Continued excavation to delineate the lateral limit of the waste.
0810	Trench extended up to the edge of the concrete slab. Waste was observed to extent underneath the concrete slab. Unable to delineate the lateral extent of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
0815	Started backfilling the test pit (TP-3) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
0830	Backfilling activities completed at TP-3.
0840	Mobilized to proposed TP-4 location.
0850	Excavation activities started at TP-4 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
0855	Traces of Asphalt concrete observed at approximately 1.5 ft bgs. Some poorly graded fine sand (SP) was also observed at about 2 ft bgs (likely pipe bedding material).
0900	Encountered irrigation line (2-in. PVC pipe) at approximately 1 ft 8 in bgs. The irrigation pipe was damaged during excavation activities.
0915	Started another test pit 1 ft south of the existing test-pit at TP-4.
0930	Encountered waste at about 3 ft 3 inches bgs at TP-4 (dark grey Asphalt concrete debris, no odor). Continued excavation towards the east to delineate the lateral limit of the waste.
1025	Excavation was discontinued at approximately 3.5 ft away from the concrete slab due to close proximity to the marked utilities lines along the edge of the concrete slab. Unable to delineate the lateral extent of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
1030	AIS fixed the damaged irrigation pipe.

Printed Name: Sneha Upadhyaya

Signature





DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		

1055	Started backfilling at TP-4 with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1140	Backfilling activities were completed at TP-2. AIS stopped for lunch.
1215	AIS returned from lunch.
1220	City of Huntington Beach Park Development Division officials arrived at the site (Chris Slama et al.).
1230	Mobilized to proposed TP-5 location.
1250	Excavation activities started at TP-5 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1300	Encountered waste (Asphalt concrete debris) at 1 ft 8 in bgs.
1310	Decayed wood pieces encountered at 4 ft 2 in bgs (mild organic odor).
1330	Excavation activities were continued towards the east. Waste was observed consistently at about 2 ft below the ground surface along the length of the trench.
1400	Excavation activities were continued until the edge of concrete sidewalk was reached (45 ft from the western edge of the trench). Excavation activities were discontinued. Unable to determine the lateral extent of the waste.
1410	Started backfilling the test pit (TP-5) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1500	Backfilling activities were completed at the excavated trench at TP-5.
1530	A pothole was excavated at about 35 ft away from the eastern edge of the TP-5 trench (past the sidewalks). Waste was observed at 2 ft bgs.
1540	Backfilled the pothole.
1545	AIS started demobilization activities.
1600	AIS and Geosyntec departed the site.

Printed Name: Sneha Upadhyaya

Signature





DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Resumption of excavation at TP-3 location (looking south).



Electric utility pipe encountered at TP-3 (looking south).



Waste encountered at TP-3, waste continues underneath the concrete slab (looking east)



Backfilling at TP-3 (looking east)



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Start of excavation at TP-4 location (looking northeast).



Damaged irrigation pipe at TP-4 (looking northeast).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Excavation of second trench adjacent to the first trench at TP-4 (looking southeast).



Waste encountered at TP-4 (looking east).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste observed to continue underneath the concrete slab at TP-4 (looking south).



AIS repairing the damaged irrigation pipe at TP-4 (looking northwest).



Start of excavation at TP-5 (looking southeast).



Waste encountered at TP-5 (looking south).



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste materials at TP-5 (looking south).



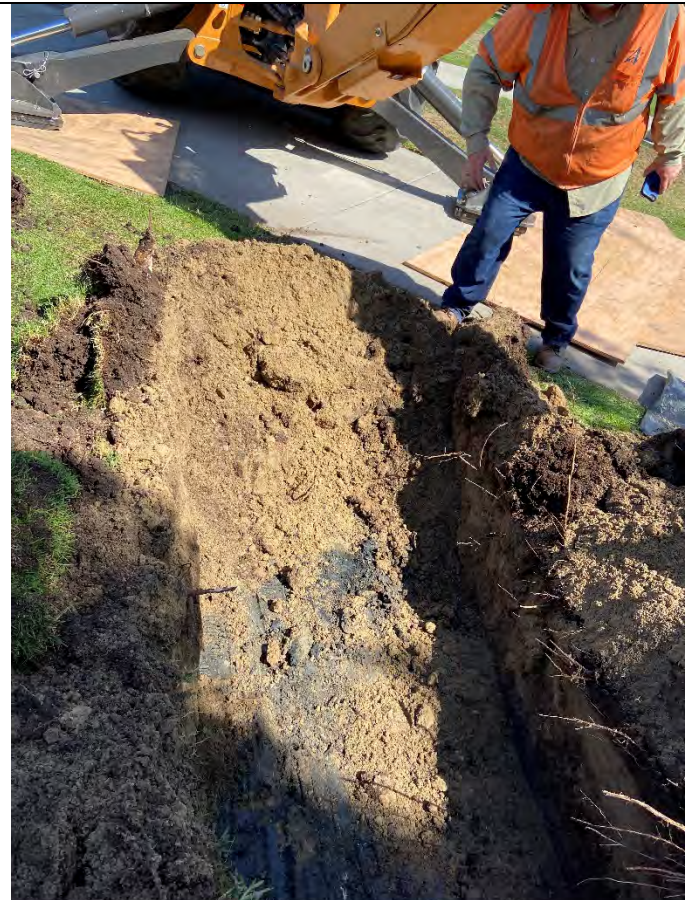
Trench wall face at TP-5 (looking south).



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste material encountered at TP-5 (looking south).



Pothole 35 ft east of excavated trench at TP-5 and observation of waste (looking west).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Backfilling the pothole at TP-5 (looking northwest).



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0655	Geosyntec air monitoring staff Eric Garcia arrived on site.
0705	ABC Liovin Drilling (ABC) arrived on site. Met with ABC crew Julio Gutierrez and Jimmy Candelaria.
0710	Discussed the plan for the day and walked to the first hollow stem auger location (HSA-5) to check the equipment access route.
0715	Conducted a brief safety meeting with ABC. ABC acknowledged the THA.
0730	Mobilized to proposed HSA-5 location.
0750	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil.
0800	Encountered waste at approximately 2.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
0820	Started HSA drilling with CME85 drill rig. Mild organic odor at 8 ft bgs.
0825	Hard drilling observed at approximately 12 ft bgs. Some brick debris observed in the spoil.
0830	Observed wet spoil at approximately 18 ft indicative of reaching the ground water table (GWT). Measured the depth to the GWT to approximately 12 ft bgs.
0845	ABC project manager Bill Borgo on site.
0900	First split spoon sample collected at 30 – 31.5 ft bgs. Sample indicative of the presence of waste (dark gray, wet, with pieces of decayed wood, mild organic odor).
0905	Observed hard drilling (rattling of auger) at approximately 32 ft bgs. Advanced through the hard material at approximately 34 ft bgs.
0920	City of Huntington Beach Park Development Division official Farhad Bolourchi arrived at the site.
0930	Unsuccessful attempt to collect a split spoon sample at 35 to 36.5 ft bgs (no recovery, sample too soft). Second attempt was made to collect sample at 38-39.5 ft bgs, still unsuccessful.
0935	Third attempt was made to collect the sample at 40 to 41.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 40.5 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
0940	HSA drilling terminated at 41.5 ft bgs.
0945	Geosyntec Senior Engineer Yonas Zemuy arrived at the site.
0950	Started backfilling the borehole at HSA-5 with hydrated bentonite chips.
1015	Mr. Bolourchi departed the site.
1025	Mr. Zemuy departed the site.
1030	Completed backfilling the borehole at HSA-5. The upper 6 inches were covered with top soil and vegetation. Mr. Borgo departed the site.

Printed Name: Sneha Upadhyaya

Signature





DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

1035	Mobilized to proposed HSA-4 location.
1050	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-4.
1055	Encountered waste at approximately 2 ft bgs (dark gray asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1105	Started HSA drilling with CME85 drill rig.
1110	Encountered GWT; the depth to GWT was measured to be approximately 8 ft bgs.
1115	Hard drilling (rattling and rumbling of auger) observed starting at approximately 16 ft bgs.
1130	Hard drilling continues at approximately 25 ft bgs. Auger tilting observed. Little to no spoil observed starting at this depth.
1140	Damage to the wire connecting the sampling barrel assembly to the lead auger.
1150	ABC repaired the wire damage and continued drilling.
1200	Hard drilling continues at 30 ft bgs, little to no spoil observed at the ground surface.
1215	Continued attempt to drill past 30 ft bgs. Very slow advancement of the auger.
1235	At 34 ft bgs, auger tilting observed. Unable to drill past 34 ft.
1240	Terminated boring at 34 ft bgs.
1245	Retrieved the auger. The lead auger was plugged with wood. The wood had mild organic odor.
1300	Started backfilling the borehole at HSA-4 with hydrated bentonite chips.
1335	Completed backfilling the borehole at HSA-4. The upper 6 inches were covered with top soil and vegetation.
1345	Mobilized to HSA-3.
1355	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-3.
1405	Encountered waste at approximately 2.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1415	Started HSA drilling with CME85 drill rig.
1420	Encountered GWT; the depth to GWT was measured to be approximately 11 ft bgs.
1430	First split spoon sample collected at 15 – 16.5 ft bgs. Observed material with a different texture than the overlying waste material (Visual classification: Sandy CLAY, dark gray, wet, medium to high plasticity, no odor), likely an interim soil cover layer.
1440	Second split spoon sample collected at 20 to 21.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 20.5 ft bgs. Native soil was visually classified as Poorly graded SAND with silt (SP-SM) in general accordance with ASTM D2488.
1445	Terminated boring HSA-3 at 21.5 ft bgs.
1450	Started backfilling the borehole at HSA-3 with hydrated bentonite chips.
1510	Completed backfilling the borehole at HSA-3. The upper 6 inches were covered with top soil and vegetation.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

1515	Mobilized to proposed HSA-2 location.
1530	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-2.
1535	Encountered waste at approximately 2.7 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1540	Started HSA drilling at HSA-2 with CME85 drill rig.
1545	Split spoon sample collected at 15 – 16.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 15.5 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
1550	Terminated boring HSA-2 at 16.5 ft bgs. Started backfilling at HSA-2.
1600	Completed backfilling HSA-2.
1615	Mobilized to HSA-1.
1620	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-1.
1630	Encountered waste at approximately 3.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1640	Started HSA drilling at HSA-1 with CME85 drill rig.
1645	Split spoon sample collected at 10 – 11.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 10.3 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
1650	Depth to GWT measured to be at approximately 10.5 ft bgs.
1655	Terminated boring HSA-1 at 11.5 ft bgs.
1700	Started backfilling at HSA-1.
1710	Completed backfilling at HSA-1.
1715	Geosyntec air monitoring staff Eric G. departed the site.
1720	ABC crew Julio G. departed the site.
1730	ABC crew Jimmy C. helped store the drums at the backyard of Edison Park Community Center, pending analysis and disposal.
1740	ABC crew Jimmy departed the site.
1745	Geosyntec field staff Sneha Upadhyaya departed the site

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Removal of top soil and vegetation at HSA-5 (looking northeast).



Waste encountered at HSA-5 (looking northwest).



First split spoon sample collected at 30 – 31.5 ft bgs at HSA-5. Sample indicates of the presence of waste.



Split spoon sample collected at 40 – 41.5 ft bgs at HSA-5. The interface between the waste and native soil is indicated.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Backfilling the borehole at HSA-5 (looking northeast).



Waste encountered at HSA-4 (looking northwest).

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Damage to the wire connecting the sampling barrel assembly to the lead auger at HSA-4; ABC fixing the wire (looking west).



Tilting of auger at HSA-4 (looking west).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Spoil (wood debris) retrieved from the auger at HSA-4.



Wood plugged in the lead auger at HSA-4.

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Waste observed in the soil cuttings at HSA-3 (looking northeast).



Split spoon sample collected at 20 to 21.5 ft bgs at HSA-3. The interface between the waste and native soil is indicated.



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Waste material observed in the spoil at HSA-2 (looking northeast).



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-2. The interface between the waste and native soil is indicated.



Waste material observed at HSA-1 (looking northwest).



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-1. The interface between the waste and native soil is indicated.



DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>March 11, 2021</u>	
WEATHER: <u>Sunny, High 64° Low 55°</u>		

Time	Field Work Activities
0700	Arrived on site and met with GEOVision field crew J. Weiss and J. Foster.
0705	Held a brief tailgate safety meeting. GEOVision crew acknowledged the THA.
0710	Performed a site walk with GEOVision crew to observe the proposed investigation locations (HSA-1A through HSA-8A).
0720	GEOVision started utility clearance survey at proposed location of HSA-1A using the RD 8000 electromagnetic utility locator, Fisher TW-6 deep search pipe locator/metal detector, 60 HDZ, SIR3000 Ground Penetrating Radar, and walk in tandem. No conflicts were found at HSA-1A.
0730	GEOVision performed utility clearance survey at proposed location of HSA-2A boring. No conflicts were found at HSA-2A location.
0745	GEOVision performed utility clearance survey at location of HSA-3A. Unknown anomalies were detected at the location of HSA-3A. GEOVision marked a new HSA-3A location 3 ft west of the existing location.
0800	GEOVision performed utility clearance survey at proposed location of HSA-4A boring. High voltage electrical lines and other unknown anomalies were detected within 5 ft of HSA-4A location. GEOVision marked a new HSA-4A location 3 ft north of the existing location.
0815	GEOVision performed utility clearance survey at proposed location of HSA-5A. Electrical lines were detected conflicting with the proposed HSA-5A location. GEOVision marked a new HSA-5A location 5.5 ft west of the existing location.
0825	GEOVision performed utility clearance survey at proposed location of HSA-6A. Some anomalies were detected within 5 ft of the HSA-6A location. GEOVision marked a new location 1.5 ft north of the existing location.
0840	GEOVision performed utility clearance survey at proposed location of HSA-7A. No conflicts were found at HSA-7A location.
0850	GEOVision performed utility clearance survey at HSA-8A location. Unknown utilities were detected conflicting with the HSA-8A location. GEOVision marked a new location 2.5 ft south of the existing location
0915	Geosyntec and GEOVision departed the site for the day.

Printed Name: Sneha Upadhyaya

Signature





DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>		CONTRACTOR: <u>GEOVision, Inc.,</u>
DAY OF WEEK: <u>Thursday</u>		DATE: <u>March 11, 2021</u>
WEATHER: <u>Sunny, High 64° Low 55°</u>		



Location HSA-1A cleared of utilities (looking north)



Location HSA-2A cleared of utilities (looking north)



Marked anomalies at HSA-3A and the new HSA-3A location (looking north)



Marked utilities at HSA-4A and the new HSA-4A location (looking north)

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>March 11, 2021</u>	
WEATHER: <u>Sunny, High 64° Low 55°</u>		



Electrical utility markings at existing HSA-5A and the new HSA-5A location (looking north)



Marked anomalies at HSA-6A and the new HSA-6A location (looking north)



Location HSA-7A cleared of utilities (looking north)



Marked anomalies at HSA-8 and the new HSA-8A location (looking north)

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0705	ABC Liovin Drilling (ABC) arrived on site. Met with ABC crew N. De La Torres and C. Villicana.
0715	Conducted a brief safety meeting with ABC. ABC acknowledged the THA. Discussed the scope of work and plan for the day.
0720	Mobilized to proposed HSA-7A location.
0750	ABC started drilling through the concrete at HSA-7A. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
0810	Started HSA drilling with CME85 drill rig.
0825	Split spoon sample collected at 10 – 11.5 ft bgs.
0830	Encountered GWT; the depth to GWT was measured to be approximately 13.5 ft bgs.
0835	Terminated boring HSA-7A at approximately 18 ft bgs.
0850	Backfilled the borehole at HSA-7A with hydrated bentonite chips and patched the surface with rapid setting concrete.
0900	Bill Borgo from ABC arrived at the site.
0915	Mobilized to proposed HSA-8A location.
0920	Bill Borgo departed the site.
0925	ABC started drilling through the concrete and noticed 2 distinct layers of concrete. ABC informed that this could be indicative of potential utilities underneath the concrete slab and this decided to move the drilling location approximately 5 ft south of the originally proposed HSA-8A location.
0950	ABC started drilling through the concrete at the new HSA-8A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1015	Started HSA drilling at HSA-8A with CME85 drill rig.
1020	First split spoon sample collected at 10 – 11.5 ft bgs.
1025	Encountered GWT; the depth to GWT was measured to be approximately 12.5 ft bgs.
1030	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1035	Terminated boring HSA-8A at 16.5 ft bgs.
1100	Backfilled the borehole at HSA-8A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1115	Mobilized to HSA-3A.
1120	ABC started drilling through the concrete at the HSA-3A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1145	Started HSA drilling at HSA-3A with CME85 drill rig.
1200	First split spoon sample collected at 10 – 11.5 ft bgs.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

1210	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1215	Encountered GWT; the depth to GWT was measured to be approximately 15 ft bgs.
1220	Terminated boring HSA-3A at 16.5 ft bgs.
1240	Backfilled the borehole at HSA-3A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1250	Mobilized to HSA-2A.
1305	ABC started drilling through the concrete at the HSA-2A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1325	Started HSA drilling at HSA-2A with CME85 drill rig.
1340	First split spoon sample collected at 10 – 11.5 ft bgs.
1345	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1350	Terminated boring HSA-2A at 16.5 ft bgs. No groundwater was encountered at this location.
1410	Backfilled the borehole at HSA-2A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1420	Mobilized to HSA-4A.
1430	ABC started drilling through the concrete at the HSA-4A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1450	Started HSA drilling at HSA-4A with CME85 drill rig.
15:15	First split spoon sample collected at 10 – 11.5 ft bgs.
15:20	Encountered GWT; the depth to GWT was measured to be approximately 14.1 ft bgs.
15:25	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1530	Terminated boring HSA-4A at 16.5 ft bgs.
1545	Backfilled the borehole at HSA-4A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1555	Mobilized to HSA-5A.
1600	ABC started drilling through the concrete at the HSA-5A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1625	Started HSA drilling at HSA-4A with CME85 drill rig.
1630	K. Viswanathan (Geosyntec) arrived on-site.
1645	First split spoon sample collected at 10 – 11.5 ft bgs.
1650	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1655	Encountered GWT; the depth to GWT was measured to be approximately 16.6 ft bgs.
1700	Terminated boring HSA-5A at 17 ft bgs.
1710	Mobilized to HSA-6A.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature






DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

1715	Backfilled the borehole at HSA-5A with hydrated bentonite chips and patched the surface with rapid setting concrete. ABC started drilling through the concrete at the HSA-6A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1720	S. Upadhyaya (Geosyntec) departed the site.
1730	Started HSA drilling at HSA-3A with CME85 drill rig.
1735	First split spoon sample collected at 10 – 11.5 ft bgs.
1745	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1800	Terminated boring HSA-6A at 16.5 ft bgs. No groundwater was encountered at this location.
1805	Backfilled the borehole at HSA-5A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1830	ABC moved the 55-gallon drums (7 drums) within the fenced construction area south of the investigation area.
1845	Geosyntec and ABC personnel departed the site.



Drilling through concrete slab at HSA-7A (looking southeast)



Hand augering at HSA-7A (looking east)

DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Change in material observed in the drill cuttings at HSA-7A (looking east)



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-7A.



Backfilling the borehole at HSA-7A with hydrated bentonite chips (looking southeast)



Surface patching with rapid set concrete at HSA-7A (looking southwest)



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Change in material observed in the drill cuttings at HSA-8A at approximately 2.5 ft bgs



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-8A.



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-3A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-3A.



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-2A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-2A.



Wood debris observed in the drill cuttings at HSA-4A



Brick pieces observed in the drill cuttings at HSA-4A

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-4A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-4A.



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-5A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-5A.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature

DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-6A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-6A.

Appendix F

Air Monitoring Logs

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/24/2020

Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}	Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}
8:00	65	3.5	W	14:00	77	2.4	NW
8:20	65	5.1	W	14:15	77	2.7	NW
8:35	66	3.6	W	14:30	77	5.8	NW
8:50	66	1.8	W	14:45	77	5.4	NW
9:00	66	1.7	NW	15:00	77	4	NW
9:15	66	1.9	NW				
9:30	67	0.8	E				
9:45	67	1.3	E				
10:00	69	1.6	E				
10:15	70	2.4	NW				
10:30	70	2.4	W				
10:45	71	3.1	W				
11:00	72	3.9	NW				
11:15	72	4.1	NW				
11:30	74	3.5	NW				
11:45	74	5.3	NW				
12:00	74	3.1	NW				
12:15	74	3.4	W				
12:30	73	3	W				
12:45	73	2.8	W				
13:00	74	4.4	NW				
13:15	76	2.8	NW				
13:30	77	1.9	NW				
13:45	78	1.5	NW				

1 - Pacific Daylight Time (PDT)
 2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static
 3 - Wind Direction from KCAHUNT143 weather station
 4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/25/2020

Time^{1,4}	Ambient Temp^{2,4}	Wind Speed^{2,4}	Wind Direction^{3,4}	Time^{1,4}	Ambient Temp^{2,4}	Wind Speed^{2,4}	Wind Direction^{3,4}
7:15	65	2	NW	13:15	77	6.4	N
7:30	65	0.9	NW	13:30	76	5.4	N
7:45	66	2.1	W	13:45	76	5.1	NW
8:00	67	2.7	SW	14:00	75	4.8	NW
8:15	67	0.9	NW	14:15	75	6.7	NE
8:30	67	1.4	NW	14:30	74	6.1	NE
8:45	67	2.3	NW	14:45	74	5.4	NE
9:00	68	3.1	NW	15:00	74	4.5	NE
9:15	68	1.5	SW	15:15	74	4.8	NE
9:30	69	2.6	NW	15:30	74	5.1	N
9:45	69	2.1	NW				
10:00	70	3.5	NW				
10:15	72	3.6	NW				
10:30	72	2.6	NW				
10:45	72	3.4	NW				
11:00	72	2.7	SW				
11:15	72	2.1	W				
11:30	74	2.5	NW				
11:45	75	3.9	NW				
12:00	75	3	NW				
12:15	75	3.8	NW				
12:30	76	3.5	NW				
12:45	76	6	NW				
13:00	76	5.2	N				

1 - Pacific Daylight Time (PDT)

2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static

3 - Wind Direction from KCAHUNT143 weather station

4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/28/2020

Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}	Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}
7:45	66	1	E	13:45	81	5.7	NE
8:00	66	1.2	E	14:00	81	5.1	NE
8:15	66	1.3	E	14:15	81	9	NE
8:30	68	1.7	NE	14:30	80	7.7	NE
8:45	70	1.9	NW	14:45	79	7.5	NE
9:00	70	2.2	NW	15:00	79	8.9	NE
9:15	70	2.5	W	15:15	78	3.3	NE
9:30	72	1.4	W	15:30	77	4.4	NE
9:45	72	2.5	SW	15:45	77	9.2	NE
10:00	72	1.2	SW	16:00	76	5.4	NE
10:15	73	1.8	SW	16:15	76	8	NE
10:30	73	2.1	SW	16:30	76	7.9	NE
10:45	73	2.5	NE	16:45	76	7.4	NE
11:00	74	4.2	NE	17:00	75	5.4	NE
11:15	75	3.8	NE				
11:30	75	3.4	NE				
11:45	75	3	NE				
12:00	78	5.5	NE				
12:15	78	4.8	NE				
12:30	81	6.5	NE				
12:45	81	5.4	NE				
13:00	81	5.2	NE				
13:15	81	4.4	NE				
13:30	81	5.2	NE				

1 - Pacific Daylight Time (PDT)
 2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static
 3 - Wind Direction from KCAHUNT143 weather station
 4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Particulate Matter (PM) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (mg/m ³) ⁴	Comments
24-Sep-20	8:00	TP-1	FA02926	EG	0.113	Background
24-Sep-20	8:05	UW	FA02926	EG	0.089	
24-Sep-20	8:12	DW	FA02926	EG	0.093	
24-Sep-20	9:00	UW	FA02926	EG	0.055	
24-Sep-20	9:10	DW	FA02926	EG	0.075	
24-Sep-20	10:00	UW	FA02926	EG	0.061	
24-Sep-20	10:10	DW	FA02926	EG	0.059	
24-Sep-20	11:00	UW	FA02926	EG	0.023	
24-Sep-20	11:05	DW	FA02926	EG	0.062	
24-Sep-20	11:15					Stop excavating
24-Sep-20	13:10	DW	FA02926	EG	0.036	
24-Sep-20	13:20	UW	FA02926	EG	0.037	Stop excavating mob to TP-3
24-Sep-20	14:20	DW	FA02926	EG	0.027	
24-Sep-20	14:25	UW	FA02926	EG	0.022	Stop excavating
25-Sep-20	7:15	TP-3	FA02926	EG	0.059	Background
25-Sep-20	7:21	UW	FA02926	EG	0.039	
25-Sep-20	7:26	DW	FA02926	EG	0.041	
25-Sep-20	8:15					Stop excavation at TP-2
25-Sep-20	8:53					Start excavation at TP-4
25-Sep-20	8:58	DW	FA02926	EG	0.043	
25-Sep-20	9:03	UW	FA02926	EG	0.041	
25-Sep-20	9:58	DW	FA02926	EG	0.053	
25-Sep-20	10:05	UW	FA02926	EG	0.047	
25-Sep-20	11:08	DW	FA02926	EG	0.048	
25-Sep-20	11:18	UW	FA02926	EG	0.035	Start backfilling at TP-4
25-Sep-20	12:50					Start excavating TP-5
25-Sep-20	12:55	DW	FA02926	EG	0.039	
25-Sep-20	13:00	UW	FA02926	EG	0.045	
25-Sep-20	14:05	DW	FA02926	EG	0.037	
25-Sep-20	14:15	UW	FA02926	EG	0.058	
25-Sep-20	15:10	DW	FA02926	EG	0.041	
25-Sep-20	15:20	UW	FA02926	EG	0.049	
28-Sep-20	7:45	DW	FA02926	EG	0.081	Background
28-Sep-20	7:50	UW	FA02926	EG	0.088	
28-Sep-20	8:00	DW	FA02926	EG	0.095	
28-Sep-20	8:08	UW	FA02926	EG	0.097	
28-Sep-20	9:05	DW	FA02926	EG	0.076	
28-Sep-20	9:10	UW	FA02926	EG	0.09	

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Particulate Matter (PM) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (mg/m ³) ⁴	Comments
28-Sep-20	9:35					Stop boring at HSA5
28-Sep-20	10:55					Start boring at HSA4
28-Sep-20	11:00	DW	FA02926	EG	0.099	
28-Sep-20	11:05	UW	FA02926	EG	0.097	
28-Sep-20	12:00	DW	FA02926	EG	0.088	
28-Sep-20	12:08	UW	FA02926	EG	0.092	
28-Sep-20	13:05					Stop boring at HSA4
28-Sep-20	14:15	DW	FA02926	EG	0.059	
28-Sep-20	14:25	UW	FA02926	EG	0.078	
28-Sep-20	15:20	UW	FA02926	EG	0.058	
28-Sep-20	15:30	DW	FA02926	EG	0.065	
28-Sep-20	15:45					Stop boring at HSA2
28-Sep-20	16:45	DW	FA02926	EG	0.078	
28-Sep-20	16:50	UW	FA02926	EG	0.052	

Notes:

- 1 - Pacific Daylight Time (PDT)
- 2 - Upwind or Downwind (perimeter)
- 3 - DustTRAK DRX Handheld Aerosol
- 4 - Recorded every 60 minutes, when soil handling or excavation is in progress

**Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647**

Daily Total Organic Compounds (TOC) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (ppm) ⁴	Comments
24-Sep-20	8:00	TP-1	FA02533	EG	0	
24-Sep-20	8:12	DW	FA02533	EG	0	
24-Sep-20	8:20	TP-1	FA02533	EG	0	
24-Sep-20	8:28	DW	FA02533	EG	0	
24-Sep-20	8:35	TP-1	FA02533	EG	0	
24-Sep-20	8:40	DW	FA02533	EG	0	
24-Sep-20	8:47	TP-1	FA02533	EG	0	
24-Sep-20	8:55	DW	FA02533	EG	0	
24-Sep-20	9:00	TP-1	FA02533	EG	0	
24-Sep-20	9:10	DW			0	
24-Sep-20	9:15	TP-1	FA02533	EG	0	
24-Sep-20	9:20	DW	FA02533	EG	0	
24-Sep-20	9:30	TP-1	FA02533	EG	0	
24-Sep-20	9:35	DW	FA02533	EG	0	
24-Sep-20	9:45	TP-1	FA02533	EG	0	
24-Sep-20	9:55	DW	FA02533	EG	0.2	
24-Sep-20	10:00	TP-1	FA02533	EG	0.1	
24-Sep-20	10:10	DW	FA02533	EG	0	
24-Sep-20	10:15	TP-1	FA02533	EG	0.1	
24-Sep-20	10:30	DW	FA02533	EG	0.1	
24-Sep-20	10:35	TP-1	FA02533	EG	0.1	
24-Sep-20	10:45	DW	FA02533	EG	0.1	
24-Sep-20	10:50	TP-1	FA02533	EG	0.1	
24-Sep-20	11:05	DW	FA02533	EG	0.1	
24-Sep-20	11:15	TP-1	FA02533	EG	0.1	
24-Sep-20	11:25	DW	FA02533	EG	0.1	
24-Sep-20	11:30	TP-1	FA02533	EG	0.1	
24-Sep-20	11:40	DW	FA02533	EG	0.1	
24-Sep-20	11:45	TP-1	FA02533	EG	0.1	
24-Sep-20	11:50					Stop excavation
24-Sep-20	13:05	TP-2	FA02533	EG	0	
24-Sep-20	13:10	DW	FA02533	EG	0	
24-Sep-20	13:20	TP-2	FA02533	EG	0	
24-Sep-20	13:30	DW	FA02533	EG	0	
24-Sep-20	13:35	TP-2	FA02533	EG	0	
24-Sep-20	13:45	DW	FA02533	EG	0.1	

**Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647**

Daily Total Organic Compounds (TOC) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (ppm) ⁴	Comments
24-Sep-20	13:50	TP-2	FA02533	EG	0.1	Stop excavation mob to TP-3
24-Sep-20	14:15	TP-3	FA02533	EG	0.1	
24-Sep-20	14:20	DW	FA02533	EG	0.1	
24-Sep-20	14:30	TP-3	FA02533	EG	0.1	
24-Sep-20	14:40	DW	FA02533	EG	0.1	
24-Sep-20	14:45	TP-3	FA02533	EG	0.1	
24-Sep-20	14:55	DW	FA02533	EG	0	
24-Sep-20	15:00	TP-3	FA02533	EG	0.1	Stop excavation at TP-3
25-Sep-20	7:15	TP-3	FA02533	EG	0.1	Start excavation at TP-3
25-Sep-20	7:26	DW	FA02533	EG	0.1	
25-Sep-20	7:30	TP-3	FA02533	EG	0.2	
25-Sep-20	7:35	DW	FA02533	EG	0.3	
25-Sep-20	7:45	TP-3	FA02533	EG	0.1	
25-Sep-20	7:50	DW	FA02533	EG	0.2	
25-Sep-20	8:00	TP-3	FA02533	EG	0.1	
25-Sep-20	8:10	DW	FA02533	EG	0.1	
25-Sep-20	8:15	TP-3	FA02533	EG	0.1	Stop excavation at TP-3. Mob to TP-4
25-Sep-20	8:53	TP-4	FA02533	EG	0.2	
25-Sep-20	8:58	DW	FA02533	EG	0.2	
25-Sep-20	9:10	TP-4	FA02533	EG	0.2	
25-Sep-20	9:15	DW	FA02533	EG	0.1	
25-Sep-20	9:25	TP-4	FA02533	EG	0.2	
25-Sep-20	9:30	DW	FA02533	EG	0.1	
25-Sep-20	9:40	TP-4	FA02533	EG	0.2	
25-Sep-20	9:45	DW	FA02533	EG	0.2	
25-Sep-20	9:55	TP-4	FA02533	EG	0.2	
25-Sep-20	10:00	DW	FA02533	EG	0.1	
25-Sep-20	10:15	TP-4	FA02533	EG	0.1	
25-Sep-20	10:20	DW	FA02533	EG	0.1	
25-Sep-20	10:30	TP-4	FA02533	EG	0.1	Stop excavation at TP-4 and begin backfilling
25-Sep-20	10:55	TP-4	FA02533	EG	0.1	
25-Sep-20	11:00	DW	FA02533	EG	0.1	
25-Sep-20	11:05	TP-4	FA02533	EG	0.1	
25-Sep-20	11:15	DW	FA02533	EG	0.1	
25-Sep-20	12:50	TP-4	FA02533	EG	0.1	
25-Sep-20	12:55	DW	FA02533	EG	0.1	Finished backfilling TP-4

Edison Park Waste Delineation Project
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Daily Total Organic Compounds (TOC) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (ppm) ⁴	Comments
25-Sep-20	13:05	TP-5	FA02533	EG	0.1	Start excavation at TP-5
25-Sep-20	13:10	DW	FA02533	EG	0.1	
25-Sep-20	13:20	TP-5	FA02533	EG	0.2	
25-Sep-20	13:30	DW	FA02533	EG	0.1	
25-Sep-20	13:35	TP-5	FA02533	EG	0.2	
25-Sep-20	13:50	DW	FA02533	EG	0.1	
25-Sep-20	13:55	TP-5	FA02533	EG	0.2	
25-Sep-20	14:05	DW	FA02533	EG	0.1	
25-Sep-20	14:10	TP-5	FA02533	EG	0.2	Begin backfilling at TP-5
25-Sep-20	14:25	DW	FA02533	EG	0.1	
25-Sep-20	14:40	TP-5	FA02533	EG	0.1	
25-Sep-20	15:15	TP-5	FA02533	EG	0.1	Excavate small trench
25-Sep-20	15:25	DW	FA02533	EG	0.1	
25-Sep-20	15:30	TP-5	FA02533	EG	0.1	Backfill done
28-Sep-20	7:45	DW	FA02533	EG	0.1	
28-Sep-20	7:55	HSA5	FA02533	EG	0.1	
28-Sep-20	8:00	DW	FA02533	EG	0.2	
28-Sep-20	8:10	HSA5	FA02533	EG	0.2	
28-Sep-20	8:15	DW	FA02533	EG	0.2	
28-Sep-20	8:25	HSA5	FA02533	EG	0.4	
28-Sep-20	8:30	DW	FA02533	EG	0.2	
28-Sep-20	8:40	HSA5	FA02533	EG	0.4	
28-Sep-20	8:50	DW	FA02533	EG	0.2	
28-Sep-20	8:55	HSA5	FA02533	EG	0.3	
28-Sep-20	9:05	DW	FA02533	EG	0.2	
28-Sep-20	9:15	HSA5	FA02533	EG	0.3	
28-Sep-20	9:20	DW	FA02533	EG	0.1	Stop boring HSA5
28-Sep-20	9:30	HSA5	FA02533	EG	0.3	Start boring HSA4
28-Sep-20	9:35	DW	FA02533	EG	0.1	
28-Sep-20	10:55	HSA4	FA02533	EG	0.1	
28-Sep-20	11:00	DW	FA02533	EG	0.2	
28-Sep-20	11:10	HSA4	FA02533	EG	0.2	
28-Sep-20	11:15	DW	FA02533	EG	0.2	
28-Sep-20	11:20	HSA4	FA02533	EG	0.3	
28-Sep-20	11:35	DW	FA02533	EG	0.2	
28-Sep-20	11:45	HSA4	FA02533	EG	0.3	

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Daily Total Organic Compounds (TOC) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (ppm) ⁴	Comments
28-Sep-20	11:50	DW	FA02533	EG	0.5	
28-Sep-20	12:00	HSA4	FA02533	EG	0.3	
28-Sep-20	12:05	DW	FA02533	EG	0.2	
28-Sep-20	12:15	HSA4	FA02533	EG	0.3	
28-Sep-20	12:20	DW	FA02533	EG	0.2	
28-Sep-20	12:30	HSA4	FA02533	EG	0.3	
28-Sep-20	12:35	DW	FA02533	EG	0.2	
28-Sep-20	12:45	HSA4	FA02533	EG	0.3	
28-Sep-20	12:50	DW	FA02533	EG	0.2	
28-Sep-20	13:00	HSA4	FA02533	EG	0.3	
28-Sep-20	14:20	HSA3	FA02533	EG	0.1	
28-Sep-20	14:25	DW	FA02533	EG	0.1	
28-Sep-20	14:35	HSA3	FA02533	EG	0.3	
28-Sep-20	14:40	DW	FA02533	EG	0.1	
28-Sep-20	14:50	HSA3	FA02533	EG	0.3	
28-Sep-20	14:55	DW	FA02533	EG	0.1	
28-Sep-20	14:58					Begin backfilling at HSA3
28-Sep-20	15:20					Begin boring at HSA2
28-Sep-20	15:25	HSA2	FA02533	EG	0.3	
28-Sep-20	15:35	DW	FA02533	EG	0.1	
28-Sep-20	15:40	HSA2	FA02533	EG	0.3	
28-Sep-20	15:45					Stop boring at HSA2 and backfill
28-Sep-20	16:30					Begin boring at HSA1
28-Sep-20	16:35	HSA1	FA02533	EG	0.4	
28-Sep-20	16:45	DW	FA02533	EG	0.1	Stop boring at HSA1

Notes:

- 1 - Pacific Daylight Time (PDT)
- 2 - Excavation Face or Perimeter (downwind)
- 3 - PID Monitor QRae III
- 4 - 15 seconds sustained readings, recorded every 15 minutes