

AIR POLLUTION CONTROL DISTRICT LOUISVILLE, KENTUCKY

GREG FISCHER MAYOR

July 29, 2016

KEITH H. TALLEY, SR. DIRECTOR

Planning & Design Services 444 S. 5th Street, Suite 300 Louisville, KY 40202

VIA EMAIL

Attn: Brian Mabry

Re: Proposed Biodigester Regulation

Dear Mr. Mabry:

The Louisville Metro Air Pollution Control District (APCD) offers the following comments on the draft Biodigester Regulation proposed for public comment on July 18, 2016.

As a technology, biodigestion provides numerous environmental benefits, including waste minimization and landfill conservation, methane management, and the production of a biogas that can be used as a renewable source of fuel to generate heat or electricity. These latter benefits can play a role in improving air quality by using methane, a potent greenhouse gas, as a cleaner burning fuel, an important component in meeting national air quality standards, a principal part of APCD's mission. For these reasons, APCD supports biodigestion technology.

That said, APCD's mission also includes implementing local air quality standards, including those that regulate objectionable odors. *See* APCD Regulation 1.13 *Control of Objectionable Odors in the Ambient Air*, a copy of which is attached for your convenience. Based on our experience, APCD believes that location is one of the most important considerations for avoiding odors that may violate Regulation 1.13. For operations with the potential to generate objectionable odors, we believe that requiring a robust operational plan, which focuses on preventing odors from occurring in the first place, but includes measures to mitigate objectionable odors if they occur, is a necessary part of that consideration.

For that reason, APCD looks forward to working with the Planning and Design Services to establish the framework for the odor mitigation plan referenced in section 4.2.63(G) of the draft regulations for siting new biodigesters. We will recommend that the odor mitigation plan include many of the elements in the sample odor minimization plans from

WWW.LOUISVILLEKY.GOV WWW.LOUISVILLEKY.GOV/APCD 701 WEST ORMSBY AVENUE, SUITE 303 LOUISVILLE, KENTUCKY 40203

Planning & Design Services Page 2

CalRecyle and the Escondido Disposal, Inc.¹ that we previously shared with you. These include, but are not limited to, negative air pressure and odor control for enclosures in which feedstocks, chemicals, and digestate are stored or managed; protocols for monitoring odors, responding to complaints, materials processing, handling, and storage practices; personnel training; and contingency plans in the event objectionable odors occur. With that, please be aware that the odor mitigation plan is just that – a plan that should minimize, but may not eliminate, all potentially objectionable odors. For that reason, in the event odors exceed Regulation 1.13, additional efforts may be required even if an odor mitigation plan has been fully implemented, including additional mitigation, revisions to the odor mitigation plan itself, and/or enforcement by APCD. Consistent with the intent of section 4.2.63(I), we expect that nothing in the odor mitigation plan will limit APCD's legal rights or remedies to seek enforcement or take any other action it deems necessary for violations of Regulation 1.13.

Finally, we recommend that section 4.2.63(G) be revised to state that "Planning and Design Services shall provide APCD with an opportunity to review and comment on said application, including the odor mitigation plan, prior to the Board of Zoning Adjustment's public hearing" to allow us to consider the odor mitigation plan within the context of the project as a whole. This review will be in addition to APCD's review required under the Land Development Code for air quality impacts related to traffic and construction that may result from a proposed project. The project may be subject to further review by APCD for applicable requirements related to the operation of the stationary source.

We appreciate the opportunity to provide comments on behalf of APCD and to work with you on this issue. Should you need any further information, please do not hesitate to contact me directly at (502) 574-7229.

Respectfully,

Keith H. Talley, Sr. Director, Louisville Metro Air Pollution Control District

cc: Deborah Bilitski, Develop Louisville Emily Liu, Planning and Design Services Stacy Dott, Jefferson County Attorney

¹ Available at <u>http://www.calrecycle.ca.gov/swfacilities/compostables/Odor/OIMP/Sample.pdf</u> and <u>https://www.escondido.org/Data/Sites/1/media/PDFs/Planning/EDIMRF/Att_2_Odor_Minimization_Plan.p</u> <u>df</u>.

From:	harrisd942@aol.com
To:	<u>Mabry, Brian K.</u>
Subject:	biodigester regulations
Date:	Monday, August 01, 2016 5:01:38 PM

West Louisville don't need more pollution we have enough in this area, I'm not concern about regulation they are not enforce anyway the air pollution board is useless.

WALMART YMCA !!

KEEP IT OUT OF THE WEST END BUILD SOMETHING WE NEED

From:	Nancy
То:	<u>Mabry, Brian K.</u>
Subject:	Biodigesters
Date:	Monday, August 01, 2016 2:20:09 PM

Allowing the building of biodigesters so close to homes is unacceptable. Reasons include, but are not limited to, dangerousness of chemicals used in production and gas produced, traffic issues in neighborhoods, odor, noise etc. Either shelve the idea or make the distance a minimum of five miles in Metro Louisville.

Sent from my iPad

Hi Brian:

I can't attend tonight's meeting so I'm sending this note.

Can we add size limits to the regulations? I think thats a major issue.

Also, some parameters on where the waste comes from....

Thanks

--

Cassia Herron 40203

Sent from my iPhone

Have A Great Day !!

David James

Begin forwarded message:

From: Srwade1 <<u>srwade1@aol.com</u>> Date: July 31, 2016 at 23:11:24 EDT To: <<u>david.james@louisvilleky.gov</u>>, <<u>wanda.smith@louisvilleky.gov</u>> Subject: Proposed Biodigester Regulations

I attended the July 28th meeting of the Planning Committee to discuss the proposed regulations to amend the Land Development Code (LDC) for Anaerobic Biodigesters. The following are some of my concerns:

1. 4.2.63 Biodigesters

The nature of the biodigesters along with the potential for possible expansion (users of a biodigester) should only be permitted in the most intense of the industrial districts (M-3), with a Conditional Use Permit.

2. A. (Distance)

I would like to see this minimum distance increased. In the event of some type of accident, no distance assigned will be far enough. However, in some areas of the Urban Service District the proposed 1,320 feet (1/4 mile) is as little as three (3) blocks.

I would like to see the minimum distance increased to 2,640 feet (1/2 mile); this would approximately be six (6) blocks. Particularly since there was no real reason why 1,320 feet was selected.

As was noted in Mr. Mabry's report, other areas in the US have minimums from 500-3,000 feet.

For the above reasons, I would also like to see the distance **(D)** from a perimeter property line adjacent to a public right-of-way (ROW) increased from the proposed 50 feet to 100 feet.

3. The proposed regulations require that plans be <u>submitted</u> to both Metro Air Pollution Control District (APCD) and Metro Emergency Management Agency/Metro Safe. I feel that the wording should require that the plans be <u>submitted and approved</u> by the aforementioned agencies; along with a requirement for annual resubmission. This would allow for any changes (Federal, State, or Local) to be incorporated into the plans; and I think that these plans should also be submitted (and approved) to the Metro Fire Department. This being the agency that will more than likely be the first responder.

4. In requesting a Conditional Use Permit (CUP), it is **pertinent** that all deliveries of the materials to the site have a time restriction; said time can be discussed during that application process. But an example would be, deliveries only between the hours of 7:00am-7:00pm.

I couldn't help but notice the particular emphasis upon the fact that 'agricultural uses' are exempt from the zoning regulations. While this is granted by State law, it caused me to think about the West Louisville Food Port. The proposed Food Port originally included biodigesters in their proposal. If this is considered an 'agricultural use', it would be possible for them to resubmit the original plan including the biodigester. Just a thought.

These are some of my concerns and I'm certain that there are many others from the meetings that took place elsewhere. Hopefully, those concerns have been compiled for your review; and an opportunity for your comments and concerns can be addressed (for the record) after the

Planning Commission forwards them for your approval.

Sincerely, Sheila Wade



Tom FitzGerald Director

Board of Directors

Joe Childers Chair

Joe Graviss Vice Chair

Liz Edmondson Recording Secretary

Betsy Rudd Bennett

Arnita Gadson

Roger Shott

P. O. Box 1070 Frankfort, KY 40602 (Phone) 502-875-2428 (Fax) 502-875-2845 fitzKRC@aol.com www.kyrc.org

33 Years of Protecting Kentucky's Environment

August 1, 2016

Brian Mabry, Staff Case Manager Planning and Design Services 444 S. 5th Street, Suite 300 Louisville, Kentucky 40202 By email only: <u>Brian.Mabry@louisvilleky.gov</u>

Dear Mr. Mabry:

These comments are submitted by the Kentucky Resources Council, Inc. on behalf of the many members of the Council that reside in Metro Louisville, and who will be adversely affected if the proposed revisions to zoning regulations are adopted without significant revision.

Before turning to the proposed regulatory changes, it is important to reflect on the current zoning ordinance and how it applies to biodigesters using anaerobic digestion technology. For while it is intended that the proposed changes would tighten regulation of biodigesters, the effect is instead to allow potential siting of such facilities in EZ-1 and other zones, while the existing ordinance would restrict such facilities to M-3 **industrial** zones unless they were converting wastes to gas for use at the facility site.

Chapter 4.2 of the Land Development Code lists the categories of conditional uses. Among them is 4.2.37, which is captioned "Non-emergency Generator and Non-accessory Alternative Energy System." A biodigester that uses anaerobic digestion to create a methane-rich biogas for off-site use or sale is neither a "non-emergency Generator" nor a "non-accessory alternative energy system."

A biodigester is not a "non-emergency generator," since that term is defined as "[a] power generator used to provide supplemental power to a user requiring additional and/or sustainable power not normally available to the user from the local public utility. This type of generator does not include those used for emergency situations such as a loss of power due to unforeseen circumstances."

A biodigester facility converting organic wastes to methane to be introduced into a gas pipeline for sale or use elsewhere is not a power generator, nor is it an "alternative energy system." Instead, it is creating a fuel that can be converted to power or heat.

Nor does such a facility fit under the definition of a "non-accessory alternative energy system," which is defined as "[a]ny facility or installation such as a windmill, hydroelectric unit or solar collecting or concentrating array, which is designed and intended to produce energy from natural forces such as wind, water, sunlight, or geothermal heat, or from biomass, for on-site or off-site use. The off-site use shall not be for public usage, which would be deemed a Public Power Plant."

A biodigester converting waste to biogas for transport is not producing energy; rather it is generating and cleaning a **fuel** that would be introduced into the LG&E gas utility pipe system for sale and end use either for combustion in a gas turbine creating energy in the form of electricity or by combustion for space heating. It is clear from the distinction drawn in the definition of "alternative energy system," which treats off-site public usage as a Public Power Plant, that the "alternative energy system" contemplated in the regulation is limited to alternative systems *creating electricity* and **not** those creating fuel that can later be combusted to generate electricity, since the definition of a public power plant is "[a]n electrical power generation facility that, regardless of fuel or energy source, is operated by a public utility or independent power producer and whose primary function is the provision of electricity to the electrical distribution system or transmission grid."

The proposed revisions to the LDC would define a biodigester as an "alternative energy system" using anaerobic digestion for "the primary purpose of producing energy." As such, the facility could be located in an EZ-1 zone regardless of whether it was producing electricity on site or generating pipeline-quality natural gas.

The proposed definition of "biodigester" should describe the process without introducing such vague terms as "primary purpose" and "secondary function." For as written, a proponent of a project could state that their *primary purpose* was to produce soil amendments and *secondary purpose* was the production of a biogas, and that therefore the proposed facility was not a "biodigester" at all. It is unclear how staff or the Commission would determine what purpose is primary and what is secondary, and in truth, the question is irrelevant to how the location of a biodigester facility should be regulated.

KRC recommends that in order to eliminate doubts and ambiguities regarding the regulation of biodigesters, the definition of "alternative energy system" be revised to remove mention of biomass, and new definitions of "anaerobic digestion" and "biodigester" be adopted to read as follows:

Alternative Energy Systems: Any facility or installation such as a windmill, hydroelectric unit or solar collecting or concentrating array, which is designed and intended to produce energy electricity from natural forces such as wind, water, sunlight, or geothermal heat, or from biomass, for on-site or off-site use. The off-site use shall not be for public usage, which would be deemed a Public Power Plant.

Anaerobic digestion means one or more processes of controlled decomposition of biodegradable materials under managed conditions in the absence of oxygen, resulting in generation of a biogas for use or sale on- or off-site, and whole digestate. Biodegradable

materials include, but are not limited to, food waste, sewage sludge, and wastes generated from fermentation processes.

Biodigester means a facility utilizing anaerobic digestion.

Under current regulation, a biodigester generating biogas for off-site use falls under Section 4.2.42 of the LDC as a "potentially hazardous or nuisance use" because of the accompanying hazards such as fire, explosion, noise, dust, or the emission of smoke, odor, or toxic gases." The biodigestion process reduces the volume of solid waste by converting organic material into a gaseous form, and thus falls under the category of reducing wastes, which can only be located currently in an M-3 District and not an EZ-1 District. Additionally, the project will be creating a soil amendment that is a fertilizer and fertilizer can only be manufactured in an M-3 District under the current LDC.

Under the proposed ordinance, biodigesters, whether using the biogas fuel on site for generation of energy by combustion for heating or for electricity generation, or whether cleaning and introducing the gas into a pipeline for use elsewhere, could be sited in a C-M, M-1, M-2, M-3 or EZ-1 zoning district, thus substantially increasing the potential location for such facilities within Metro Louisville.

KRC opposes such an expansion of potential sites, and believes that the existing restriction on biodigesters to M-3 zones should be retained and clarified further by adopting the proposed definitional changes above, and by explicitly amending 4.2.42 of the LDC to read as follows:

4.2.43 Potentially Hazardous or Nuisance Uses

The following uses (manufacture, processing, treatment, or storage unless otherwise specified), having accompanying hazards such as fire, explosion, noise, vibration, dust, or the emission of smoke, odor, or toxic gases may, if not in conflict with other laws or ordinances, be located in industrial zones as indicated below by Conditional Use Permit after

the location and nature of such use shall have been approved by the Board of Zoning Adjustment. In reviewing an application for a CUP, the Board of Zoning Adjustment shall

review the plan and statements of the applicant and the following:

A. The Comprehensive Plan;

B. Environmental and health related concerns raised by the operation and the applicant's proposal to mitigate any adverse effects to the public's health, safety and general welfare;

C. The applicant's site design, buffering, and security measures and their adequacy to mitigate any adverse effects to the public's health, safety and general welfare;

D. Any other evidence submitted by the applicant and any other party addressing the issues.

A Conditional Use Permit under this section shall be issued only if the evidence shows the applicant's operation and associated nuisances will be properly managed and the public's health, safety and general welfare will be protected. The Board of Zoning Adjustment may impose additional conditions to protect surrounding properties. All Conditional Use Permits under this section shall be issued subject to the applicant also receiving all necessary permits from local, state and federal regulatory agencies.

EZ-1 and M-3

Aluminum powder

Brick, firebrick, tile, clay products, including refractories: manufacturing, processing or treatment but not including storage

Cement, gypsum, lime, and plaster of paris (but not storage)

Charcoal, lampblack, carbon black, bone black, and fuel briquettes, including pulverizing

Chemicals, including acetylene, acids and derivatives, alcohol (industrial), ammonia, aniline dyes, carbide, caustic soda, cellulose and cellulose storage, chlorine, cleaning and polishing preparation (non-soap), dressings and blackings, creosote,

dyestuffs, exterminating agents and poisons, hydrogen and oxygen, plastic materials, and synthetic resins, potash, pyroxylin, tar products, turpentine and

resin, and solvent-extracting

Coal, coke, or tar products including fuel gas, and coke-oven products

Distillation, manufacture, or refinement of coal, tar, asphalt, or asphalt products Metal and metal ores, reduction, refining, smelting, alloying, including blast furnaces, cupolas, and blooming mills (but not storage of metal products)

Minerals and earths (including sand-lime products), grinding, crushing, processing or storage

Paint manufacture, processing, or treatment (but not storage)

Petroleum or petroleum products, refining, bulk storage, including gasoline or other petroleum products

Plastic, manufacture, processing, treatment, or bulk storage Radioactive materials

Steel works and rolling mills (ferrous) for steel, structural iron and steel fabrication, and structural products, including bars, cables, girders, rails, wire rope, or similar products

Waste paper and rag operations

Wood pulp or fiber, reduction or processing (including paper mill operations)

M-3 Only

Anaerobic digestion / biodigester

Distillation of wood and bones

Explosives (when not prohibited by other ordinances) including ammunition, fireworks, nitrating of cotton or other materials, nitrates (manufactured and natural) of an explosive nature, and storage of latter

Exterminating operations where exterminating chemicals or agents are stored Fertilizer (organic and non-organic), including fish, oils, manure, or peat

Glue and size (vegetable), gelatin (animal), and starch manufacture

Grain storage or grain elevators

Hair, hides, raw fur, leather, curing, dressing, dyeing, finishing, tanning, and storage Match manufacture, processing, or treatment

Meat and fish products, including slaughtering of meat or curing of fish, packing, and storage

Ore dumps, slag piles Rendering, incineration or reduction, and storage of dead animals, garbage, offal, or waste products (the entire operation to be performed within a building) Slaughtering of animals or poultry Stock yards and feed lots

With respect to the proposed setback of 1,320 feet, KRC believes that the setback should not be a fixed distance irrespective of the scale, capacity, design, operational history of the applicant and of the technology, and type and variability of composition of feedstock of the biodigester, but should incorporate a default setback distance of 2,640 feet from the digester to a sensitive receptor that can be adjusted upwards, or downwards to no less than 1,320 feet depending on those considerations, and the recommendations of local emergency response agencies. The overriding consideration should be one of assuring compatibility of the proposal with other land uses nearby, in terms of height, bulk, scale, intensity, traffic, noise, odor, appearance, and potential risks of pollution, fires or explosion during process upsets, malfunctions, or leaks.

For a limited-scale biodigestion process that is both utilizing only waste generated on-site and is utilizing the biogas in a closed-loop process to generate on-site electricity or space heating, the BOZA should have the flexibility to allow such processes only as an accessory use in C-M, M-1 and M-2 zones provided that the total tonnage of feedstock material processed on the site is less than 10 tons per day. The setback for a biodigester falling under this category would be set by BOZA to assure protection of sensitive receptors such as residential property, but in no case shall be less than 600 feet.

No process of converting organic wastes to biogas is without potential problems, whether from failed or clogged biofilters, from leaks or spills during product transfer, upsets in the digestion process, or from leaks of odorants that will be intentionally introduced into the gas prior to feeding the gas into a pipeline system. With every vent or stack to the outside air, with every valve, seal, and flange, there is a potential for odors, and typically there are several points in the process where venting to outside air of methane and other products and byproducts of the process could occur, including a flare for flaring off surplus gas and a discharge stack associated with a biofilter for odor control.

Adequate standards are needed to assure that all inputs of waste and outputs of products, byproducts, and impurities that are removed from the generated biogas are fully accounted for so as to prevent off-site impacts to other land uses, prior to issuance of a Conditional Use Permit. With respect to proposed conditions B, C, D, E, F, G, H, I, and J, the conditions are good so far as they go, but the proposed requirements are missing several critical considerations. KRC recommends that these revisions be made to the list of conditions, and that all of the conditions be incorporated into 4.2.43 as a new subsection, rather than a separate section, so that the general language of 4.2.43 and the authority it provides BOZA to tailor conditions to the needs of the individual site and surrounding uses, is retained. Additionally, KRC proposes these conditions be added:

1. In order to assure that the proposed facility receives rigorous review, the LDC should be modified to provide that any proposal for a biodigester be reviewed by an independent consultant retained by the BOZA, and that the cost of that review should be passed to the applicant through a permitting fee.

2. All biogas condensate shall be discharged into a sealed drainage system or recirculated back into the digester. Liquids may be discharged into a sewer only as approved by MSD, or may be taken of-site in a closed tanker.

3. All bulking, transfer, and pre-treatment of waste shall be carried out in an enclosed building maintaining negative air pressure, with all waste storage and processing occurring on an impermeable surface with a sealed drainage system. Wastes shall be stored in enclosed containers or reactor vessels. The building shall be equipped with biofiltration sufficient to prevent ambient release of odor, bioaerosols, and microorganisms.

4. All storage and process tanks shall be bermed and shall have capacity at least 110% of the largest vessel or 25% of the total tankage volume.

5. All waste received shall be processed and introduced into the digester unit within 24 hours of receipt.

6. The exclusion of biodigesters as an agricultural land use should be limited to biodigesters located on the site of an agricultural operation and utilizing only feedstocks generated by the farming operation. Otherwise, the facility falls outside of the Chapter 100 exclusion and becomes a commercial facility that is subject to regulation under Chapter 100.

Thank you for the opportunity to presents these concerns and suggestions.

Cordially,

Tom FitzGerald Director



July 29, 2016

Ms. Emily Liu Director of Louisville Metro Planning and Design Services 444 South 5th Street, Ste 300 Louisville, KY 40202

Re: Case Number 16AMEND1007

Dear Ms. Liu:

Please include this letter in the official record of the above-referenced case and provide a copy to the members of the Planning Commission.

I propose the following amendments to draft regulations before the Planning Commission at the August 1, 2016, meeting:

- Anaerobic digesters should be allowed only in the M-2, M-3 and EZ-1 zoning districts in the following circumstances.
- In the M-2 and M-3 zoning districts:
 - If no residential use or residentially zoned property is within 1/4 mile of the proposed anaerobic digester project, the project should be a permitted use with special standards under Section 4.3 of the Land Development Code ("LDC") and items B through J in the proposed draft regulations should be the special standards (the "Operating Standards");
 - A proposed anaerobic digester located between 300 feet and 1/4 mile of a residential use or residentially zoned property shall only be permitted upon the granting of Conditional Use Permit and shall be subject to the Operating Standards; and
 - An anaerobic digester shall not be located within 300 feet of any residential use or residentially zoned property.
- In the EZ-1 zoning district:
 - An anaerobic digester shall only be permitted as an accessory use upon the granting of a Conditional Use Permit and be subject to the Operating Standards;

3500 National City Tower, 101 South Fifth Street Louisville, KY 40202

- For purposes of this section, accessory use means the anaerobic digester would only process Feedstock (as defined in the proposed draft) generated by the primary use at the Building Site (as defined in the existing LDC) at which the anaerobic digester is located.
- There shall be a minimum setback of 300 feet from any residential use or residentially zoned property.

These modifications to the proposed draft regulations align the restrictions of anaerobic digesters with current restrictions in the LDC placed on other uses with similar risk profiles such as landfills, incinerators, fracking operations, composting facilities, recycling facilities, and solid waste transfer stations. If additional scientific research, data and reports show that the risk profile is greater than these similar uses, then and only then should significantly different setbacks be imposed on anaerobic digesters.

Anaerobic digesters are located in urban settings across this country, including the following locations (Google Earth photos of each are attached):

- New Albany, IN; 707 Pillsbury (General Mills plant); 250 feet from residential;
- Perris, CA; 1306 Goetz Rd; 800 feet from residential
- Jacksonville, FL; 1696 E. 14th St; 400 feet from residential
- Cleveland, OH; 13550 Aspinwall; 475 feet from residential;
- Compton, CA; 1140 W. Mahalo (Kroger distribution center); 525 feet from church; adjacent to commercial district; less than 1/2 mile from dense residential area
- Bradenton, FL; 1001 13th St. (Tropicana plant), adjacent to park with baseball field and pool; 275 feet from residential;
- Comstock, MI; 8938 Krum Ave (Bells Brewery); less urban but adjacent to soccer park;
- Brooklyn, NY; 329 Greenpoint Avenue; adjacent to commercial; less than 1/2 mile from dense residential; tours in glass-enclosed walkway built atop the digester <u>http://www.nyc.gov/html/dep/html/environmental_education/digester_egg_tours.shtml</u>

In connection with approval of the facility in Perris, CA, the City of Perris published a 38-page Environmental Checklist Report analyzing the potential risks with the project. This project after all phases are complete would process approximately 150,000 tons per year of organic material. The report details: (1) the material processing facility that will have a biofilter that removes more the 99% of the odorous molecules, (2) the use of ferric chloride to control any hydrogen sulfide that naturally occurs in the digestion process so there should be no trace of hydrogen sulfide in the ambient environment; (3) the collection and processing of the biogas including the composition and pressure levels that mitigate against fire and explosion risks; (4) the potential air quality impact of the facility including the effect of trucking operations. All of these issues were explained in detail for the proposed digester project on 17th Street and would be required of any new project permitted going forward. Also, the California Energy Commission published a Localized Health Impacts Report. Copies of both documents are attached.

Ms. Emily Liu July 29, 2016 Page 3

Finally, at the BOZA meeting for the proposed project on 17th Street, at meetings for the moratorium and at meetings for this amendment to the LDC, there has been significant importance placed on odor issues at the anaerobic digester in Haviland, Ohio, that was visited as part of the due diligence on the proposed project on 17th St. This Ohio digester has outside reception of materials, no air handling or biofilters, and a lagoon settling pond for the handling of the post-digestion liquid. That is not what was proposed on 17th Street and would not even be allowed under the proposed draft so that project in Ohio should not be the standard bearer for potential odor issues at digesters. The operations, design features and potential odor impacts on the surrounding community included in the attached environmental report provide much better insight for revising the LDC code than the Ohio project.

Thank you and I look forward to the continued discussions regarding anaerobic digesters.

Sincerely,

Brian D. Zoeller







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City of Perris Planning Division 135 N. D Street, Perris, CA 92570

Environmental Checklist

Project Title	Major Modification 11-04-0001, CR&R Green Energy Facility
Lead Agency Name and Address	City of Perris, Development Services Department Planning Division 135
	North D Street, Perris, CA 92570
Contact Person and Phone Number	Diane Sbardellati, Associate Planner (951) 943-5003
Project Location	The existing 53-acre CR&R Perris Material Recovery Facility and Transfer Station is located at 1706 Goetz Road, Perris, at the southwest corner of Ellis Avenue and Goetz Road. The Green Energy project site is located in the western undeveloped portion of the CR&R site, near the southern border. The Renewable Natural Gas (RNG) would be piped to a dispensing station in a modified 4.4-acre truck parking lot adjacent to Ellis Avenue.
Project Sponsor's Name and Address	CR&R, Inc. David Fahrion, President 1706 Goetz Road, Perris CA 92570
General Plan Designation	General Industrial
Zoning	General Industrial
Description of Project	The proposed project requires approval of a Major Modification 11-04-0001 to existing Conditional Use Permit 91-27. The Major Modification would allow expansion of the CR&R Perris Materials Recovery Facility (MRF) to include the 2.26 acre first phase of a Green Energy Facility with one anaerobic digester and supporting equipment on an undeveloped portion of the CR&R site. The operational area of the Green Energy Facility includes a biofilter area of .26 acres and a Renewable Natural Gas (RNG) fueling facility on 4.4-acres. The project anticipates conversion of up to 150 tons of processed organic municipal waste into biogas and compostable material per day. The biological decomposition and gas production takes place in a 97-foot vertical fully enclosed anaerobic digester (AD). A one-phase continuous digestion process degrades and stabilizes the organic municipal waste material, called feedstock. The feedstock will be trucked in from the CR&R MRF in Stanton, California until sufficient quantities are available locally. The
	lowest 15 feet of the anaerobic digester is a control room operating the plumbing, electrical components, and pumps for the digester.
	The RNG fuel is a natural byproduct of the anaerobic process. Methane is produced by the organisms as they break down the organic material, which after refining, is a high grade natural gas. The refined biogas would be piped underground approximately 855 feet to a RNG station with slow-fill fueling pumps for 48 CR&R collection trucks. An existing 4.4-acre concrete parking lot truck parking area near Ellis Avenue will be modified for the facility.
	The Green Energy facility project components include a previously entitled 39,000 square foot MRF building addition, the anaerobic digester (AD), a biogas holding tank, an emergency flare to vent biogas, and a biogas clean- up system that converts the raw biogas (methane) to pipeline quality RNG. A new 2,400 square foot metal building encloses electrical rooms, a storage area, control room, laboratory, restrooms, and an equipment room for the gas purification system. An attached 480 square foot metal canopy shields additional boilers and a generator on the south side of the building All

waste handling co and vented to an trace odors from t The fueling system hose slow-fill RN	onveyors from the transfer 11,354 square foot state-of the process. m includes a RNG storage	building are covered, sealed, the art biofilter that removes
The fueling system hose slow-fill RN	m includes a RNG storage	
instrumentation and will be routed and Existing landscap connections will b lines, the existing	G posts, electrical equipm nd/or control panels. Unde l buried in trenches approx- ing, street lights, fire hydro- be relocated as required. To concrete pavement will be	tank, a pump station, 24 dual- ent, piping and various rground electric and gas utilities imately 18-inches below grade. ants and fire department o install the underground gas e cut and repaired.
The Perris CR&R station for Southwe Elsinore, Hemet, P unincorporated cor complying with the Integrated Waste N waste transfer facil are currently hauled El Sobrante Landfi amount of organic	facility serves as the primatest Riverside County include erris, San Jacinto, and Cany nmunities. The facility assist waste reduction and recyce Management Act (AB 939) ity for residents and busines d to either the Badlands Late Il west of the site. The prop- material being trucked to the	ry waste transfer and recycling ling the cities of Temecula, Lake yon Lake and surrounding sts these local municipalities in ling mandates of the California while serving as a local solid sses. Residual waste materials ndfill northeast of the site, or the posed project will reduce the nese landfills.
The project will be day capacity diges the facility may ult capacity of up to 4 anticipated to be co	e developed in phases begi ter. Based on the operation timately consist of two dig 50 tons per day on 3.7 acro oppleted and operational l	nning with a single 150 ton per nal success of the first digester, sesters with a daily conversion es. The first phase is
In December 1991, Conditional Use Pe environmental impa Materials Recovery environmental impa mitigated to a level air quality, traffic ar materials, and health Declaration 2254 w station/MRF under 1 of Negative Declarat	an Initial Environmental S rmit 91-27. The Study anal acts of a 1,800 ton per day Facility (MRF). It found the of insignificance. Mitigation and circulation, noise, water h and safety. On August 15 as approved for the expansion Major Modification 06-015 tion 2254 and the associated	tudy was prepared for yzed the potential waste transfer station and nat no potential significant facility that could not be on measures included those for resources (drainage), hazardous , 2007, Mitigated Negative ion of the waste transfer i8 to 3,000 tons per day. A copy ed Initial Study are attached.
Boundary	General Plan Designation	Existing Land Use
North	MFR-14/Specific Plan	Multi-Family Residential Single Family Residential
East	Light Industrial Public	Industrial
South	General Industrial	Industrial
West	General Industrial Open Space MFR-14	Single Family Residential Railway Museum Private Rail Line Yacht Manufacturer
	Connections will te lines, the existing The Perris CR&R station for Southwe Elsinore, Hemet, P unincorporated con complying with the Integrated Waste N waste transfer facil are currently haules El Sobrante Landfi amount of organic The project will be day capacity diges the facility may ult capacity of up to 4 anticipated to be co In December 1991, Conditional Use Pe environmental impa Materials Recovery environmental impa mitigated to a level air quality, traffic an materials, and health Declaration 2254 w station/MRF under of Negative Declara	Connections will be relocated as required. To lines, the existing concrete pavement will be The Perris CR&R facility serves as the primar station for Southwest Riverside County include Elsinore, Hemet, Perris, San Jacinto, and Can- unincorporated communities. The facility assi complying with the waste reduction and recyce Integrated Waste Management Act (AB 939) waste transfer facility for residents and busine are currently hauled to either the Badlands Lan El Sobrante Landfill west of the site. The prop amount of organic material being trucked to the The project will be developed in phases begi day capacity digester. Based on the operation the facility may ultimately consist of two dig capacity of up to 450 tons per day on 3.7 acre anticipated to be completed and operational to In December 1991, an Initial Environmental S Conditional Use Permit 91-27. The Study anal environmental impacts of a 1,800 ton per day or Materials Recovery Facility (MRF). It found the environmental impact would be created by the mitigated to a level of insignificance. Mitigatio air quality, traffic and circulation, noise, water materials, and health and safety. On August 15 Declaration 2254 was approved for the expansis station/MRF under Major Modification 06-015 of Negative Declaration 2254 and the associate Boundary General Plan Designation North MFR-14/Specific Plan Light Industrial Open Space MFR-14

Other public agencies whose approval	CalRecycle (State of California)
is required	Southern California Air Quality Management District (OC + O) (D)
l'oroquirou	Country of Diverside Country Management District (SCAQMD)
	County of Riverside, Community Health Agency, Department of
	Environmental Health (LEA – Local Enforcement Agency)
Eviation Facility	Riverside County Fire Department (CalFire)
Existing Facility	The original entitlement for CR&R was Conditional Use Permit (CUP) 91-27
	approved on June 16, 1992 by the Perris City Council. Subsequent
	entitlements approved by the City include Major Modification 06-0158. Minor
	Modification 08-10-0017, and Administrative Development Plan Review
	(ADPR) 10-05-0009, CUP 91-27 permitted the construction of a facility
	designed to transfer or recover 1.800 tons of municipal solid waste recyclable
	materials, organic wastes, and construction/demolition wastes per day. The
	CUP also permits subsidiary uses including the truck maintenance facility
	administrative offices passenger vehicle parking lots truck maintenance facility,
	scales and scale house and container storage areas On April 10, 1000
	Conditions of Approval for CLID 01 27 man areas 11
	conditions of Approval for COP 91-27 were approved based on the
	acquisition of a third parcel for the facility.
	Conditional Use Dormit (CUD) 01 27
	The following existing uses enground with CUD 01 07
	57 540 square fact mosts transfer (ACDE) 111 111
	57,540 square root waste transfer/wike building includes a tipping floor,
	two below-ground loadout ports, and a sort line for processing commingled
	recyclables.
	Administrative Office: A 1,920 square foot modular administrative office
A A A A A A A A A A A A A A A A A A A	is located northwest of the transfer/MRF building.
	Scalehouse/Truck Scales: A 240 square foot scale house is located at the
	main entrance to the facility. Two 70-foot in-ground truck scales are
	located on each side of the scalehouse.
	Fueling Facility: A truck fueling facility is located south of the
When the second second second second	transfer/MRF building with one 20,000 gallon diesel fuel tank.
	Cargo Container Storage: Rentable empty containers are stored primarily
	on 25 acres of the undeveloped western portion of the site.
	Major Modification 06-0158 was approved on August 15, 2007, expanding
	the existing facility to include the following:
	Increased Daily Permitted Tonnage: An increase in the total permitted
	tonnage of all wastes and recyclable materials entering the site from 1 800
	to 3,000 tons per day.
	Construction & Demolition Waste/Greenwaste Processing Facility: A
	62.700 square foot open-air facility designed to receive and process
	construction and demolition wastes such as concrete and process
	organic materials such as greenworts and wood. The sustain include
	series of screens, manual sorting stations, and arindow that are used
	materials and reduce their size All meterial states in the separate various
	occur on the 62,700 source fact as a storage and processing will
	occur on the 02,700 square root concrete pad in the future. This processing
	area has not yet been constructed.
	Employee Parking Lot: At the southwest corner of Ellis Avenue and Goetz
	Road, a new employee parking lot of pervious pavement provides for on-
	site detention and percolation. 71 existing parking stalls remain near the
	office and along the west side of the site.

Collection Truck Parking Lot : A new collection truck parking lot was constructed immediately north of the C/D waste processing facility site with paved parking lot for 140 collection vehicles and 13 transfer trucks. Existing parking for 17 collection trucks remains north of the offices.
Additional Truck Scale: A third truck scale was installed north of the existing scale house.
Entrance Widening: The main entrance driveway from Goetz Road was widened to be 130 feet wide near the scale house to allow for additional through lanes and onsite truck stacking.
Water Quality Detention Basin: A new 40,000 sf WQMP detention basin was approved for the northwest corner of the project entrance. A 100,000 sf temporary retention basin at the west side of the property, adjacent to the rail line, collects offsite flows.
Landscaping and Screen Wall: Approximately 147,277 square feet of landscaping was installed along the entire frontage of both Ellis Avenue and Goetz Road. A 12 foot high decorative masonry wall was constructed along Ellis Avenue and Goetz Road.
<u>Minor Modification Review 08-10-0017</u> was approved on November 6, 2008 for interior site improvements north of the Goetz Road entry, including the reconfiguration of the 40,000 sf detention basin and the employee/visitor parking areas. A new 47-stall visitor parking area (with disabled stalls) was added.
Administrative Development Plan Review 10-05-0009 was approved on June 30, 2010 for the construction of a 39,900 square foot steel building addition to the existing transfer station building with roll-up doors for the processing of recyclable materials. This future building will receive the municipal organic waste that will be fed into the digester unit of the Green Energy Facility.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

Land Use/ Planning	X	Hazards & Hazardous Materials
Population/ Housing		Noise
Geology/ Soils		Public Services
Hydrology/ Water Quality		Utilities/ Service Systems
X Air Quality	X	Aesthetics
Transportation/ Traffic		Cultural Resources
Biological Resources		Recreation
Mineral Resources		Mandatory Findings of Significance
Agriculture Resources		None

Determination

(To be completed by the lead agency)

On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant on the environment, and a NEGATIVE DECLARATION will be prepared

X I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required

I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets, if the effect is a "potentially significant impact" or "potentially significant unless mitigated." An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

randella Signature

September 28, 2011

Date

Diane Sbardellati, Associate Planner Printed Name

Development Services Dept., City of Perris For

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
1. L	AND USE AND PLANNING. Would the project:				
a.	Physically divide an established community?		· · · · · ·		Y
b.	Conflict with applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigation an environmental effect?				x
C.	Conflict with any applicable habitat conservation plan or natural community conservation plan?				x
Com	ments				
1.a.	Surrounding land uses include: North: Single family and multi-family residential housing South: Industrial manufacturing uses (yacht manufacturing) East: Industrial uses, vacant land; Perris Valley Airport across Go West: Rail line right of way and single family and multi-family res The project site is zoned for General Industrial land uses that includ facilities (MRFs) such as the existing use, and the proposed Green E property is to provide for more intense land uses that include the ma commodities, and the provision of services that are necessary for an generally located away from sensitive land uses so that they may op community or the environment. Compatible industrial uses are locat measures have been imposed to lessen impacts to residential uses to	etz Road idential dev e waste tran Energy Facil unfacture o urban envir erate withou ed east and the west an	elopment across l sfer stations and ity. The intent of f products, the dis conment. Industria it significant imposed south of the site, d north for the ex	Ellis Avenue materials rec industrially- stribution of al zones are acts to the and mitigationistic string industic	covery zoned
1.b.	use. The proposed project will not physically divide an established of The General Plan land use designation for the site is General Industri Industrial). The site is located in an area established and designated Plan. The project is consistent with the Perris General Plan and Zom Facility is a permitted use, and is complies with all zoning requirement approvals from the Federal Aviation Administration and the Riversite Section 10.e. for detailed information. (Source: 1, 2)	community. rial, and the for industria ing Ordinar ents. Moreo de County A	(Source: 1, 22) zoning is also GI al purposes by the nce, in that the Gr ver, the Facility h Airport Land Use	(General City's Gene een Energy as received Commission	eral 1. See
1.c.	The project is subject the provisions of the Multiple Species Habitat City of Perris on September 17, 2003, and the Stephens Kangaroo H County. The project is located not located in the Narrow Endemic Pla however a burrowing owl habitat assessment was performed as requir Regarding the Stephens Kangaroo Rat, while approval of the project a directly impact the species, it is assumed to cumulatively impact the p Kangaroo Rat, and this impact is mitigated through the payment of SK	Conservation abitat Fee A nt Species A ed. No habit and the develop resumed track CR Habitat C	on Plan (MSHCP) area, as adopted b area (NEPSSA) of at or owls were pro- lopment of the site ditional range of the Conservation fees.	adopted by y Riverside the MSHCF resent on the would not he Stephens (Source: 12.	the , site. , 13)
2. PC	PULATION AND HOUSING. Would the project:	1 6,14			
a .	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				x

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No
b.	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				X
С.	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				X
Comn	nents				
2.a.	The project is an expansion of an industrial facility that provides we businesses in its service area by accepting materials from existing Facility will convert organic waste to biofuel for CR&R trucks. The jobs for the local employment market, and up to 100 construction-require the extension of roads or infrastructure that could result in displace any existing or planned housing. (Source: 22)	vaste disposa and projecte the first phase related temp a significant	al services to resid d land uses. The C will create up to 2 orary jobs. The pr increase in popula	ences and Green Energ 20 new perr oject does r ation, and w	y nanent ot vill not
2.b., &c.	The site consists of an existing transfer station/MRF and waste industrial development within the CR&R site is currently vacant The Green Energy facility will occupy approximately 2.6 acres of for slow-fill fueling. There is no existing or planned housing or inh (Source: 22)	collection o or used for this land, pl nabitants wit	perations yard. La temporary cargo us an existing par hin the project site	and designa container s king lot to l e.	ited for storage. be used
3. G	EOLOGY AND SOILS. Would the project:				
a.	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i)	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?			X	
ii)	Strong seismic ground shaking?	12797		X	
iii)	Seismic-related ground failure, including liquefaction?			1.1	X
iv)	Landslides?				X
b.	Result in substantial soil erosion or the loss of topsoil?				X
с.	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liguefaction or collapse?			x	
d.	Be located on expansive soil, as defined in Table 1801-B of the Uniform Building Code (1994), creating substantial risks to life or property?				X
е.	Have soil incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				X

		Potentially	Potentially Significant Unless Mitigation	Less Than	
	Issues and Supporting Information Sources	Significant Impact	Incorporated	Significant Impact	No Impact
Comn	nents				
201	No because active faulte and the in the second seco				
3.a.ı, ii	the Elsinore Fault located approximately 12 miles southwest of the and all structures within the general region may be subject to mode seismic event. The site is not located within a designated Alquist-F	en the Elsino e site. Both o erate to seve Priolo Zone.	ore and San Jacinto of these zones are re ground shaking	o fault zones classified as ; in the even	s, with active t of a
	For the proposed Green Energy Facility, the anaerobic digestion preseismically-engineered closed conduit pipe system. All tanks and properational safety. Final engineering and building plans will be reduced by the construction of the specifications for Seismic Zone 4, and all site construction of geotechnical report and the approved structural calculations prepare Therefore, potentially significant impacts will be addressed throug Building Code. (Source: 1, 4)	rocess and g processing ve quired to cor hall comply red for const the minim	as production will essels have autom nply with the Unit with the recomme ruction of the Gre um requirements of	occur withi atic controls form Buildin ndations of en Energy fa of the Unifo	n a s for ng the acility. rm
3.a.iii	Groundwater is not expected impact the project. As indicated in th 3, the general area of the site does not experience high groundwate The 2005 Geological Investigation for Design and Construction of Geological Engineering Inc., stated groundwater was not encount 40 feet. (Source: 1, 4)	ter and has a the City's Ger ter and has a of the CR&I tered during	eral Plan Safety I moderate potenti R expansion prepa their field explor	Element, Exi al for liqued ared by Har ation to a d	hibit S- faction. rington epth of
3.a.iv	The site possesses a gentle slope from west to east with no hill hazards. (Source: 22)	llside areas.	There is no pote	ential for la	ndslide
3.b.	Project implementation will require additional site grading. The amproject is 6,350-cubic yards. The excess material will be used to bab basin adjacent to the west property line. The existing retention basi improvements, and will be backfilled to its design size as new develoccurs on site. The movement of vehicles and personnel on unpavel temporary soil erosion. At buildout the majority of the site will be other landscaping that will stabilize onsite soils and prevent erosion.	nount of eart ackfill the bo in was over-e elopment (in ed surfaces d improved wi	h to be excavated rrow area and ove excavated to provi cluding the Green uring construction th structures, pave	in Phase 1 c ersized reten ide fill for p Energy Fac may result ement, grave	of the tion rior tility) in el or
3.c.	The site lies within the Hanford-Tujunga-Greenfield soils associatid drained to excessively drained soil with a surface layer of sand to s farming and pasture as well as irrigated truck farming and urban de Geotechnical Report, the earth materials encountered in their explo alluvium consisting of silty sands with some deeper layers of clayer medium to very dense. As noted in the General Plan Safety Element soil classification that may be deemed as potentially hazardous. (Sec	on which is andy loam. evelopment. pratory borin y silt and silt at, the site is ource: 1, 4)	characterized as a These soils are su According to the gs to a maximum ty clay. The soils a not located in a ge	deep, well itable for dr 2005 Harrin of 40 feet w are moist an eologic unit	y land Igton ere d or
3.d.	The General Plan Safety Element states that the site is located in an According to the 2005 Harrington Geotechnical Report, the prelim soil possesses a very low expansion potential as defined the Unifor mitigating post-construction movement due to this characteristic w updated in the January 2006 Addendum. (Source: 1, 4)	n area of soil hinary tests in rm Building vere incorpor	s that are not conn ndicate that the su Code. Design rec rated into the 200	sidered expa rface/near-s ommendatic 5 report, and	unsive. urface ons for d were
3.e.	The facility currently is connected to sanitary sewers maintain subsurface septic systems are planned. (Source: 22)	ned by East	ern Municipal W	ater Distric	zt. No
4. HY	DROLOGY AND WATER QUALITY. Would the project:				
а.	Violate any water quality standards or waste discharge requirements?			x	

		Potentially Significant	Potentially Significant Unless Mitigation Incorporated	Less Than Significant	No
h	Substantially deplete groundwater supplies or interfere	Impact		Impact	Impact
D.	substantially with groundwater recharge such that there				1.5
	would be a pet deficit in aquifer volume or a lowering of the	1000			
	local groundwater table level (e.g. the production rate of			1.5.2.5	v
1	pre-existing nearby wells would drop to a lovel which would				^
	not support existing land uses or planned uses for which				
	permits have been granted)?				
C	Substantially alter the existing drainage pattern of the site				
0.	or area, including through the alteration of the source of a				v
	stream or river in a mapper which would result in			1.1	^
1.5.191	substantial arasian or siltation on or off site?				1.0
d	Substantial closion of sination of or on-site?				
u.	or area including through the alteration of the source of a			1. 1. 1.	v
	stream or river, or substantially increases the rate or amount	1.2.1		1.6.3.8	^
	of surface rupoff in a monner which would reault in flooding				
	on- or off-site?	1 States		11 12	1.000
0	Create or contribute runoff water which would exceed the				
0.	canacity of existing or planned storm water drainage				v
	systems or provide substantial additional sources of	100			^
167 g	polluted runoff?		1 0 5 5 5 4 4		
f.	Otherwise substantially degrade water quality?			X	10.00
g.	Place housing within a 100-year flood hazard area as	A LANG			
	mapped on a federal Flood Hazard Boundary or Flood				X
1.5	Insurance Rate Map or other flood hazard delineation			2.0.00	
	map?				
h.	Place within a 100-year flood hazard area structures which	1.1.1.2	Ref States		X
105	would impede or redirect flood flows?				
i.	Expose people or structures to a significant risk of loss,			100	0
1.5	injury or death involving flooding, including flooding as a			X	
	result of the failure of a levee or dam?				
j.	Inundation by seiche, tsunami, or mudflow?				X
Com	nent				

Page 10 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No		
4.a.	No pollutants are generated from the processes of the proposed Green Energy Facility. All the anaerobic digestion processes and gas production will occur within a modern seismically-engineered closed conduit pipe system, tanks, and processing vessels with automated controls for operational safety. The processed waste end product (digestate or sludge cake) that will be sterilized for pathogens and seeds. Any spill of material will be basically benign and will be swept up and returned to an enclosed or protected area. The storage of chemicals used in the process such as ferric chloride will be subject to the permitting requirements for hazardous waste storage and containment as required by the Fire Marshal and the Riverside County Department of Environmental Health (LEA – Local Enforcement Agency).						
	The Green Energy Facility is required to comply with all appropriate Regional Water Quality Control Board regulations and those of the local NPDES program. Implementation of these programs will significantly reduce or eliminate the potential for water quality degradation from this facility. The existing Water Quality Management Plan (WQMP 06-0158, approved March 4, 2009) prepared for the CR&R expansion in 2007 will be amended to address the Green Energy facility. Although the WQMP specifically addresses a 30-acre area of the CR&R Transfer Station north of the new development site, the drainage system and hydrology study address the entire site. The recycling area and the detention and retention basins were sized for the entire 53-acre site in anticipation of future development and designed to drain to the retention basin adjacent to Goetz Road. A Preliminary WQMP was approved August 10, 2011 to address Phase 1 and future phases (3.7 acres total) of the Green Energy facility and subsequent phases. Any trash and debris associated with the existing transfer and recycling building area, parking lot and tank area was previously addressed by the Litter Control Plan in place for the from the earlier (August 15, 2007) MMRP for Major Modification 06-0158. Other Pollutants of Concern are leaking oil, fluids or fuel from vehicles, which will be addressed by the Amended WQMP for the project. The following Conditions of Approval for the Green Energy Facility PWOMP are required:						
	 The development shall be subject to all provisions of City establishes stormwater/urban runoff management and disc comply with federal regulations, and any amendments, re The structural BMPs selected for this project have been a final WQMP including plans and details providing the ele proposed structural BMPs including the infiltration basin grading permits to the Public Works Department for approx 	y of Perris C charge contrivisions, or c approved in evations, slo and porous oval.	Ordinance No. 119 rols to improve wa ordinances pertain concept. The own opes, and other det pavement prior to	4, which ater quality a ing thereto. er shall subr ails for the the issuanc	and mit a e of		
	(Source: 11, 23)				10.00		
4.D.	The tank and equipment farm surface area will be covered in decominfiltration. New impermeable paving will be limited to the fire lane the tank farm. The RNG fueling area will be modified from an exist WQMP 06-0158. The proposed project will require approximately 7 anaerobic digester for the processing of recyclable materials. However, and minimize any wastewater to the sanitary sewer. A minor amount onsite employees for drinking water and sanitation purposes. The printerfere with groundwater recharge.	posed grani and a 5-vei ing parking 7,200 gallon ver, the syst to f potable roject will n	ite to allow for gro hicle parking lot a lot that was previ- us per day of potab- em is designed to water consumption ot deplete groundw	ound water t the north e ously evalua- le water in to recycle this on will be by water suppli	nd of ated in the water y es or		
	(Source: 10, 11, 22, 23)						

Page 11 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
4.c., d.	The proposed project requires the development of approximately 2.26 acres for a 'tank farm', biofilter, fire lane, and 5-vehicle paved parking area. This area was previously considered by WQMP 06-0158. The proposed project will not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river that would result in substantial erosion or siltation on- or off-site. A Stormwater Hydrology Report was prepared in 2008 for the overall CR&R project site prior to approval of Final WQMP 06-0158 in accordance with the guidelines and standards of the Riverside County Flood Control and Water Conservation District.				
	The study indicates that the immediate project area drains in a gen acres west of the site are tributary. Of this total, approximately 70 family residential parcels (average ¼ acre) with the remaining 136 been diverted north from the existing 36-inch culvert under the rai oversized siltation/detention basin parallel to the railway frontage released into a new stormdrain in the Ellis Avenue right-of-way an intersection of Ellis Avenue and Goetz Road.	eral west to acres of run acres curre l line throug on CR&R p nd directed t	east direction. Ap off are contributed ntly undeveloped. the a graded swale a roperty. The flows o their natural poin	proximately I from single These flows and directed s will be gra nt of release	e s have l to an dually at the
	The 40,000 square foot detention basin located along the Goetz Ro including the area of the Green Energy facility. Stormwater collect directed to this basin, which is designed to intercept onsite runoff a into the existing Goetz Road storm drain. For these reasons, the pr increase the rate or amount of surface runoff to cause flooding on- infiltrate will flow to the Goetz Road basin to be detained. (Source: 10, 11, 22)	bad frontage cted from su and graduall roject does n or off-site.	is designed to dra rface swales and s y release the flow ot have the potent Any surface drain	in the entire ubsurface pi s at current n ial to substa age that doe	e site, ipes are rates intially es not
4.e., f.	The amount of runoff water from the project will not exceed the car drainage systems or provide substantial additional sources of pollu CR&R facility has been amended to address the 40-acre western p facility will be built. The original WQMP anticipated future develop with the fire lane and small parking lot and the 2,850 sf roof area of the impervious surface area and contribute to a minor increase in s	apacity of the need runoff boortion of the opment. The of the equiption ite runoff.	e existing and plan because the existing e site where the Gr e small amount of nent building will	nned storm y g WQMP for reen Energy paving association slightly income	water or the ciated rease
	The equipment area (tank farm) will be covered with decomposed surface. The Amended WQMP addresses the new development, he highest runoff that could ever be generated on the site. With the us the calculated flows are now conservative. The amended WQMP a maps with descriptive text. No additional calculations are needed, considered. No upsizing of the existing retention or the west deten	granite or si owever the ose of decomp adds the Gre and there is tion basin th	imilar rock materia original WQMP fa posed granite as th en Energy Facility no additional drai nat captures off-sit	al for a perv ctored in the e surface may to the exhi- nage to be e water is re	ious e aterial, bit equired.
	The project will also be required to comply with the NPDES progr Pollution Prevention Plan to manage potential surface pollutants d the facility. This will include the implementation of Best Managen for the release of pollutants, and those designed to contain any pol	ram and prep uring constr nent Practice lutants onsit	pare and implement uction and long-te es designed to reduce. (Source: 10, 22)	nt a Stormwarm operatio uce the pote , 23).	ater n of ntial
4.g.,	The project is not located within a designated 100-year flood hazar	rd area. The	e project is industr	ial in nature	, and
<u>n.</u> 4.i.	According to the Perris General Plan Exhibit S-15, the eastern port	tion of the C	CR&R site and the	proposed	
	development site are partially located in a potential dam inundation operated by the California Department of Water Resources, who is	n area from	Lake Perris. The c	lam is owne analysis of	d and
	potential inundation based upon dam failure in a major seismic eve	ent. Based u	ipon a worst case	scenario of a	a
	complete dam failure at maximum capacity, flood waters could real of up to five feet. No habitable structures are proposed, therefore n	ach the site i 10 impacts a	n approximately 1 re expected. (Sour	.5 hours at a rce: 1)	a depth
	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
---	--	--------------------------------------	--	------------------------------------	--------------
4.j. The subject site is not anticipated to be subject to these hazards. A tsunami is a very large ocean wave cause					
	underwater earthquake or volcanic eruption. The proposed site is la	ocated appro	ximately 60 miles	from the o	cean
	with intervening mountain ranges, so a tsunami is unlikely to affec	t the project	site. Mudflow car	n be defined	as
	soft wet earth and debris, made fluid by rain or melted snow and or	ften building	g up great speed. T	he subject	
	topography is relatively flat and mudflow is not likely. A seiche oc	curs when w	vave that oscillates	s in lakes, ba	ays, or
	gulfs from a few minutes to a few hours as a result of seismic distu	irbances. A	seiche without dan	n failure is	1.27
	unlikely to affect the site which lies approximately 2 miles south o	f the Perris l	Dam. (Source: 1)		

5. AIR QUALITY. Where available, the significance criteria established by the applicable quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

2 Conflict with or obstruct implementation of the applicable	v
a. Connict with or obstruct implementation of the applicable	^
to an existing or projected air quality violation?	X
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors?	X
d. Expose sensitive receptors to substantial pollutant concentrations?	X
e. Create objectionable odors affecting a substantial number	X
of people?	
Comments	

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
5.a., b. & c.	An Air Quality Impact Analysis was prepared for the CR&R expanses September 2006 by Giroux and Associates, and updated June 7, 20. The following is a summary of the findings in the updated report.	nsion from 1)11 to incluc	,800 TPD to 3,000 le the Green Energ) TPD in y Facility p	roject.
	The climate of the Perris area is an interior valley subclimate of So characterized by warm summers, mild winters, infrequent rainfall, weather. The clouds and the fog that form along the region's coastl Valley, and burn off quickly after sunrise if they do. The most imp airflow across populated areas of the Los Angeles Basin that bring in the afternoon. This transport pattern creates unhealthful air quali- extend to the project site during the summer months.	outhern Calif moderate af ine rarely er ortant weath s polluted ai ity when the	fornia's semi-arid of ternoon breezes, a stend inland to the her pattern is the w ir into western Riv fringes of this "un	climate, nd generally San Jacinto varm season erside Coun ban smog c	y fair) hty late loud"
	Winds are an important factor in characterizing the local air quality regional pattern of air pollution transport and control the local rate the NW at 6-8 mph as air moves regionally onshore from the cool interior of Southern California. These winds allow for good local nurbanized coastal areas into interior valleys. Strong thermal convector cloud from urbanized development, but the project area cannot condegradation.	y environme of pollution Pacific Ocea nixing, but r ction in the s npletely esca	nt because they be dispersion. Daytin an to the warm Mo nay also bring air summer ultimately ape the regional ai	oth determin me winds ar jave Desert pollutants fr dilutes the r quality	e the re from rom smog
	In addition to winds that control the rate and direction of pollution strong temperature inversions that limit the vertical depth through pollutants such as automobile exhaust near their source and can lead developed coastal areas of the basin, but within inland valleys there pollution problems, although summers are subject to haze and occa	dispersal, So which pollut d to air poll e is not enou usional unhe	outhern California tion can be mixed. ution "hot spots" i ugh traffic to cause althful air conditio	also is know Inversions n heavily winter air ons.	wn for trap
	In 2003 the Environmental Protection Agency (EPA) adopted a rul attainment deadline for ozone for the year 2021. Because Californi. Standards (AAQS) several years before the federal action and due trestrictive dispersion meteorology, there is considerable difference A new state standard for an 8-hour ozone exposure was adopted in with the federal 8-hour standard, however it does not have a specific has strengthened the 8-hour standard and published draft standards ppm. Standards for PM-2.5 were strengthened in 2006, and a new f (NO ₂) has recently been adopted, which is more stringent than the stata in the South Coast Air Basin, the basin will likely be designated one-hour standard.	e for states t a had estable to unique ain between sta 2005 which ic attainmen anticipating federal one-h state standar ed as a "non-	that extended and exished Ambient Air r quality issues intra- te and national cle more closely align t deadline. Subseq a future 8-hour st hour standard for n d. Based on air qua- attainment" area f	established a Quality roduced by can air stand ned Califorr uently the E andard of 0 hitrogen diox ality monito for the natio	a new the ards. ia 2PA .065 xide oring nal
	For the Perris area, although there is no baseline air quality data availong-term air quality monitoring data for ozone and 10-micron diar other particulate types and nitrogen oxide. According to Table 2 of Impact Analysis, 1) Perris photochemical smog (ozone) levels often levels declined to their lowest 1 and 8-hour levels in history in 2003 standards in more than 10 years, and 3) PM-10 levels in Perris period of measurements in excess of the federal 24-hour standard have be state PM-10 standards are exceeded an average of 29% of all days p is comprised of ultra-small diameter particulates (PM-2.5). Both the standards and the high percentage of PM-2.5 are air quality concern fewest violations in recent years. Further, 5) more localized polluta low near the project site because background levels even near down and there are only limited sources of such emissions near the project.	ailable for the neter particu the updated n exceed sta 8, and have odically exc en measured per year, and e frequency ns in the pro- nts such as in town River et site.	ne proposed project alates, and data fro Giroux and Assoc ndards, 2) carbon in not exceeded feder eed the state 24-ho l in the last six yea d 4) a substantial fr of violations of pa ject area, however nitrogen oxides, lea side never exceed	t site, there m Riverside ciates Air Q monoxide (0 ral and state our standard rs. Moreove raction of Pl rticulate 2009 showe ad, etc., are allowable le	is for uality CO) , but er, M-10 ed the very evels,

Page 14 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
5. a.,	There is substantial excess dispersal capacity to accommodate loc	alized vehicu	lar air pollutants s	such as NOx	

b., & c.,

cont.

Air quality impacts occur in two different ways. Primary air quality impacts occur near an individual source of emissions, such as CO₂. Many particulates, such as fugitive dust emissions, are also primary pollutants. Secondary air quality impacts require time to transform from a more benign form to a more unhealthful contaminant. This occurs regionally far from the source. Their incremental regional impact is very small on an individual basis and cannot be quantified except through complex photochemical computer modeling based on a specific amount of emissions. There is however no mechanism to translate those emissions directly into a corresponding ambient air quality impact. Other secondary significance criteria identified by the SCAQMD CEQA Handbook includes toxic, hazardous or odorous air contaminants.

SCAQMD has designated significant emissions levels for evaluating impact significance for primary pollutants. Any project in the SCAB with daily emissions for construction and operations in excess of the thresholds recommended by SCAQMD are considered significant. The only source of project-related hazardous air contaminants are those contained within small diameter particulates (PM-2.5) from diesel exhaust. Such exhaust will be generated from construction equipment and by diesel-powered haul trucks. Recently adopted policies regarding PM-2.5 emissions require the timely conversion of waste hauling fleets to diesel alternatives, or the use of "clean" diesel, if emissions are as low as alternative fuels. Since the project's intent is to produce a clean nondiesel fuel source for the CR&R fleet, the project would produce a less than significant impact on air quality from diesel emissions. Further, because health risks from toxic air contaminants are cumulative over an assumed 70-year lifespan, measurable off-site public health risk from diesel emissions would occur for only a brief portion of a project lifetime and only in limited quantity.

Short-Term Construction Impacts

without any threat of violating state and federal standards.

The project construction includes installation of a tank farm, biofilter, 2,400 sq foot equipment building and office, a small parking area, paved fire lane/driveway, and a non-contiguous truck CNG truck fueling area located on an existing parking lot on a 2.16 acre site (first phase). Construction of a previously evaluated and approved 39,900 sf transfer building is part of the project. Dust as a fugitive emission during construction of the facility is a primary concern. Grading activities will be the most equipment intensive disturbance, and will be limited due to the already flat nature of the project site. However, there is no way to know the parameters of dust emission potential since it is based on several factors and can change day to day. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Average daily PM-10 emissions during site grading and other disturbance are stated in the SCAQMD Handbook to be 26.4 pounds/acre. This estimate is based upon required dust control measures in effect in 1993 when the AQMD CEQA Air Quality Handbook was prepared. Rule 403 was subsequently strengthened to require use of a greater array of fugitive dust control on construction projects.

A default universal factor is used by regulatory agencies to estimate fugitive dust generation based on area. Average daily PM-10 emissions during site grading and other disturbance are shown in the CalEEMod.2011.1.1 computer model to be about 10 pounds per acre, presuming the use of reasonable available control measures (RACMs). The SCAQMD requires the use of best available control measures (BACMs). Approximately 10-20% of PM-10 particulates are expected to be PM-2.5 particulates, and are considered to be more unhealthful than the larger diameter particulates. Larger particles of fugitive dust have more potential for nuisance soiling than a health hazard because large particles are readily filtered by human breathing passages and are chemically inert.

Exhaust emissions will result from on and off-site heavy equipment. Prototype grading, paving and other construction equipment such as cranes, forklifts, tractors, loaders and backhoes were evaluated in the CalEEMod.2011.1.1* computer model for a worst case scenario and peak daily construction activity emissions were found to be well below SCAQMD thresholds, as shown in the chart below:

Page 15 of 38 September 26, 2011

5.a.,	Issues and Suppor	ting Information	Sources		PS	otentially ignificant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
b. &		C	onstruction	Activity E	missions	(lbs/day)		ALCONT .	٦
C.,	Activity	ROG	NOx	СО	SO2	PM-	10 PM-2.5	CO ₂ (e)	
cont.	Maximum Daily Emissions	11.7	19.1	11.4	0.0	2.1	1.7	1,961.6	
	SCAQMD Threshold	75	100	550	150	15) 55	-	

Peak daily construction activity emissions will be below SCAQMD CEQA thresholds.

Localized Significant Thresholds to evaluate ambient air quality on a local level in addition to regional emissionsbased thresholds of significance were also found to be well below the LST for construction on-site:

LST Emissions (lbs/day)									
Perris Valley CO NOx PM-10 PM-2									
LST	887	148	12	4					
Max On-Site Emissions*	10	16	2	2					

Long-Term Operational Impacts

The proposed Green Energy facility will initially process 150 tons of organic feedstock (household municipal waste, greenwaste and foodwaste) into an organic base for mulch and energy in the form of refined methane gas. 15% of the waste will become CNG. Although there will be an increase in criteria air pollutants to deliver the material to the facility, there will be a corresponding decrease in exhaust emissions by replacing diesel combustion engines with clean-burning vehicles. Delivery of 150 tons of feedstock from Stanton, CA will consume 75 gallons of diesel fuel a day, and another 15 gallons will be used by the Perris CR&R hauling fleet. The digested material will produce approximately 35 million cubic feet of methane. By BTU equivalence, 4.9 billion BTU from diesel fuel are required to deliver the feedstock, which in turn produces 36 billion BTU of clean energy. The almost 10:1 efficiency is augmented by the fact that CNG produces fewer air pollutants than the diesel fuel it replaces.

For analysis purposes, air pollution emissions from feedstock delivery have been treated as "new" emissions, and all three phases and 60 employees were factored into the results. Thus, if all delivery emissions are considered new, and if all three phases are completed in 2012, and if none of the delivery vehicles are CNG fueled, then SCAQMD CEQA significance threshold could still be exceeded by 14%. Even if a small fraction of the delivery fleet was CNG fueled, the NOx threshold would not be exceeded.

The increase in deliveries of digestible feedstock from Stanton was determined to have already been included in the previously analyzed and approved facility expansion from 1,800 to 3,000 TPD. With implementation of Mitigation Measure AQ-1 below, air quality impacts from on-road delivery vehicles will be less than significant.

Mitigation Measures to reduce air quality impacts were included in the Initial Study from the overall site expansion (Major Modification 06-0158), and these measures remain in place as project Conditions of Approval.

Mitigation

AQ-1: At completion of Phase 3 of the Green Energy project, at least 25% of the feedstock delivery shall be transported by CNG-fueled trucks.

(Source: 3, 22, 23, 24)

Page 16 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
5.d.	Although residential developments are located immediately north a located within a quarter mile of the site, local wind patterns genera the facility. Currently CR&R handles all municipal solid waste wit transfer/MRF building. The Green Energy Facility will utilize the adj by Administrative Development Plan Review 10-05-0009 on the sou below: 5.e. (Source: 3, 15, 22)	and west of Ily blow we hin an enclo jacent 39,900 ith side of th	the project site, an st to east from the osed 57,540 square 0 square foot MRF he property. See od	d a school is residences foot waste addition app lor discussio	s toward proved pn
5.e.	State health requirements limit the time that wastes and recyclables The CR&R was previously required to prepare and implement an O Waste Facility Permit (Perris Transfer Station/MRF SCAQMD Ru land use permit and State Solid Waste Facility Permit for the expan the allowable duration of any bio-degradable materials in storage p The combination of normally favorable meteorology and state of th the proposed expansion without any perceptible change in odor cha	s may be sto Odor Contro le 410 Odor nsion contai niles, inside ne art odor c aracter at ne	red onsite to furth l Program as part Management Plan n a number of Corr vehicles, or on the control measures w arby homes.	er control od of its State S n). The exist aditions restrictions floor rill accommon	lors. Solid ting ricting or. odate
	Digestible organic materials generate many potentially odorous con- conditions, whether intentionally in a digester or accidently becaus production rate increases dramatically. The anaerobic process of the system that has no airborne pathways except through emergency pro- Neither pathway is normally active. The potential odor impact from of the feedstock, and from the residual digestate to be delivered to facility offsite.	mpounds. D e the refuse the Green End ressure relie n the project a compostin	uring oxygen-defi has sat around too ergy Facility is a fu f valves or through t derives from deli g/soil amendment	cient (anaer o long, the b ully enclose n a backup f very and loa processing	obic) iogas d lare. ading
	The feedstock receiving station and digestate load-out area are in a air pressure. Ventilation air is drawn from the building and directed assisted by blower fans, direct air from the building to a 20,000 squ distributed through a series of perforated pipes into a rock bed of a to 10 feet of shredded wood. The air rises out of the pipes and work about 60 to 90 seconds. The atmosphere within the bio-filter is mois moist air in the receiving building (waste is typically 30% or greater system inside the building used to control dust and to cool the build Microorganisms grow on the surface of the wood chips and as the a microorganisms feed off the odorous compounds, thus eliminating biofilter because it is designed to control air pollution and to ensure and properly operated, the biofilter removes more than 99% of odo	n enclosed h d by four lar hare foot ext pproximatel ks its way to fist like a spo er moisture h ding environ air passes th odor. SCA(e its proper of rous molecu	building maintaine ge capacity ducts is terior bio-filter wh y three feet in dep the surface of the onge. The moisture by weight) and fro iment during warm rough the moisten QMD requires a per operation. When a alles, according to .	d under neg from the bui ere it is then th covered b bio-filter w comes from m the mistir n days. ed wood chi rmit for the dequately si	ative Iding, by up ithin n the lg ips the zed
	CR&R pioneered the use of bio-filtration in the waste industry. The Facility in Stanton, CA has an approximately-sized one-acre, 16 for firm CH2MHILL. This biofilter system went into operation in Octo operate from the SCAQMD. It has been successfully operating for from nearly three acres of buildings or some 145,000 sq. feet, abou served by the proposed biofilter in Perris. Bio-filtration is considered Technology (BACT) for odor control at MRF facilities. The propose operating in Stanton. With probes and direct observation, the Perris a weekly basis, check that the air is circulating through the biofilter sufficient to maintain the microorganisms. This practice will ensure consume the odor compounds generated in the municipal waste fee 2, below.	e CR&R Ma ot high bioff ober of 2000 more than t t three times ed by the A0 sed bio-filter plant mana properly, a e the biofilte dstock, and	tterial Recovery ar ilter designed by th b, with a permit to en years. The biof is the size of the bu QMD as Best Avai r at Perris will be s ger will monitor th nd that the moisturer is performing ad is listed as Mitigat	ad Transfer ne engineeri construct an ilter receive ilding that v lable Contro imilar to the biofilter a re level is equately to tion Measure	ng s air vill be ol e one and on e AQ-

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
5.e., cont.	Mitigation				
	AQ-2: The Perris CR&R plant manager, using probes and the on a weekly basis to ensure that air is circulating the level is sufficient to maintain the microorganisms.	ough direct o ough the bio	bservation, shall n filter properly, and	nonitor the t d that the m	oiofilter oisture
	(Source: 15, 16, 22)	1.5.1		27-11	
6. TR	ANSPORTATION/TRAFFIC. Would the project:				
a.	Cause an increase in traffic, which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?				x
b.	Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?				x
C.	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				x
d.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				x
e.	Result in inadequate emergency access?				X
f.	Result in inadequate parking capacity?				X
g.	Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks?				x
Comm	ents:				

	Issues and Supporting Information Sources	Potentially Significant	Potentially Significant Unless Mitigation Incorporated	Less Than Significant	No			
6.a.	The traffic impacts associated with the expansion of the CR&R facility approved by Major Modification 06-0158 from 1,800 to 3,000 tons per day were examined in the Traffic Impact Analysis (TIA) prepared by Kunzman Associates, Inc. dated June 15, 2006. Extensive traffic mitigation was included as part of the Mitigation Monitoring Plan to address the potential traffic impacts associated with the expansion. The proposed Green Energy Eacility project will not increase daily tonnage or traffic above currently permitted levels.							
	The proposed project is an extension of an existing facility to incre transportation fuel from the process. The Green Energy Facility is a waste stream due to the combined recovery of renewable energy, d other inert materials found in the municipal waste stream. About 12 energy, approximately 65% to digestate, an inert material that will soil amendment for agricultural and horticultural uses. The renewal biogas by-product of the anaerobic digestion process that will be re CR&R trucks.	ase recyclin designed to igestate from 5% of the in be processe ble energy i fined and u	g efficiency and to divert and recover m the anaerobic di coming waste will d at an off-site con s biofuel produced tilized as a transpo	o create rene up to 95% gester, sand be convert mpost facilit from meth ortation fuel	ewable of the and ed to ty into ane, a for			
	For the Green Energy facility, Kunzman Associates provided an ad whether the proposed project would add truck trips beyond what w Green Energy facility will convert up to 150 tons per day of proces (RNG) for CR&R trucks and a digestate product that will eventuall phase is anticipated to be completed and operational by 2013. Subs conversion capacity of 450 tons per day. The initial phase is anticip employees at ultimate buildout.	ditional trip as analyzed sed municip y be used for equent phas pated to have	generation analys in 2006. The initi- bal waste to Renew or horticultural mu- ses may ultimately e a total of 20 emp	sis to determ al phase of t vable Natura lch. The firs have a dail loyees, with	uine he al Gas st y 1 60			
	Approximately 240 daily vehicle trips in Passenger Car Equivalents will be generated for the ultimate employee and truck trips. These trips include seven (7) truck trips per day to and from the Stanton CR&R to acquire the organic waste called feedstock needed for the digester. Approximately 75% (112.5 tons) of the feedstock will come from outside the area, and 25% (37.5 tons) will be available onsite at the CR&R MRF as part of the local municipal waste stream. As Perris develops, all feedstock for the Green Energy facility will be available locally.							
	The earlier Perris MRF Project Traffic Impact Analysis analyzed an increase of 1,200 tons per day at the facility. The Green Energy project tonnage of an initial phase of 150 tons per day to an ultimate 450 tons per day is included in the approved trip generation increase to 3,000 tons per day. It should be noted that, according to the daily tonnage report for April 2011, the CR&R facility was averaging approximately 1,100 tons per day due to the downturn in the economy. The facility is not permitted to exceed 3,000 tons a day without new review and entitlements. The Green Energy project has no potential to create a significant increase in traffic as a result of a substantial increase in vehicle trips, or by contributing to the volume to capacity ratio on roads, or congestion. (Source: 18, 19, 22)							
6.b.	The proposed project will not result in exceeding a level of service Management Plan. Although Ellis Avenue is designated as a Second Green Energy Project will not add a significant number of additionat trucks are restricted from accessing the CR&R MRF/Transfer Static	standard est dary Arteria al trips, and on from Elli	ablished by the Co l by the Perris Gen to maintain land u s Avenue. (Source	ounty Conge neral Plan, t se compatib :: 1, 19, 24)	stion he bility,			
6.c.	The project site is located immediately west of the Perris Valley Air existing runway. The Green Energy Facility was subject to review b Commission (ALUC) to determine whether the Project was consisted Airport Land Use Compatibility Plan (PVALUCP). ALUC also rec height of two of the Green Energy Facility structures, the anaerobic addition (45') within Zone D. The FAA determined that neither strue markings and lighting are not necessary for aviation safety. The AL Consistency for the project on September 8, 2011. See ALUC Cond air traffic patterns will result from the proposed project, therefore, n	rport and ap by the River ent with the juired review digester (97 acture will p UC presented itions in Secondary o impacts an	proximately 1,200 side County Airpor recently adopted I w and approval by 7') and the MRF/tr resent a hazard to ed a finding of Cou- ction 10.e., below. re anticipated. (So) feet from the ort Land Use Perris Valley the FAA for ansfer static aviation, an inditional No changes urce: 9, 22)	he ; r the on d that s in			

	issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant	No
6.d.	The project is located on the interior of an existing site and does no	ot have the r	otential to create	sharp curves	S.
	dangerous intersections, or incompatible uses. (Source: 22)	F		F	-,
6.e.	The project uses Goetz Road for primary access. Emergency site a	ccess is also	provided from El	lis Avenue.	Both
	roads are City-maintained public streets. Access was previously re	viewed by th	he City Engineer a	and the City	's
	traffic consultant and determined to be adequate. A paved fire lane	will serve t	he Project area. (S	ource: 22)	
6.f.	Onsite parking for the Green Energy facility complies with the offi	ice parking 1	ratio of the City of	Perris zoni	ng
	ordinance, including disabled access requirements, and has been de	etermined to	be adequate for the	ne proposed	uses.
	Therefore, no impacts are anticipated. (Source: 2, 22)				
6.g.	The proposed project does not conflict with adopted policies, plans	s, or program	ns supporting alter	native	
	transportation. A public transit bus stop is currently located in fron	t of the CR&	&R site on Goetz H	Road. Bike	racks
	and ride share programs are currently in place at the existing opera	tion and wil	l be maintained wi	ith the prope	osed
100	expansion. (Source: 1, 22)				1 11 10
7. BI	DLOGICAL RESOURCES: Would the project:				
a.	Have a substantial adverse effect, either directly or through				
	nabitat modifications, on any species identified as a				
	candidate, sensitive, or special status species in local or				X
	Department of Fish and Came or U.C. Fish and Wildlife				
	Service?				1000
h	Have a substantial advarse offect on any riperion behitet or				
D.	other consitive natural community identified in local or				
	regional plans, policies, and regulations or by the California				v
	Department of Fish and Game or US Fish and Wildlife		A CONTRACTOR		^
	Service?				
C	Have a substantial adverse effect of federally protected				
0.	wetlands as defined by Section 404 of the Clean Water Act				
	(including, but not limited to marsh vernal pool coastal				x
	etc.) through direct removal, filing, hydrological interruption.				^
	or other means?				
d.	Interfere substantially with the movement of any native				
	resident or migratory fish or wildlife species or with	21 S. 1	1993		
	established native resident or migratory wildlife corridors.		1		X
	or impede the use of native wildlife nursery sites?				
е.	Conflict with any local policies or ordinances protecting				
	biological resources, such as a tree preservation policy or		1.50 Mar 10		X
	ordinance?			4. 5	
f.	Conflict with the provisions of an adopted Habitat				
	Conservation Plan, Natural Community Conservation Plan,				X
	or other approved local, regional, or state habitat				
<u> </u>	conservation plan?			14-1-1	
Comm	ents:				
7.a.	The project site is an existing waste transfer facility. The area property	osed for the	new Green Energy	/ facility wa	is
	previously graded during construction of the original facility, and is	s currently u	sed for empty carg	30 container	•
	storage. The proposed parking and RNG fueling lot north of the Gru	een Energy f	facility is currently	y used for	
	collection truck parking. The biological survey performed by Kidd	Biological, 3	Inc. in April 2011	found that t	he
	site did not possess habitat that would support any endangered or se	ensitive spec	ties, and no sensiti	ve species,	
	including the burrowing owl, were found on site. (Source: 13)				

		Potentially	Potentially Significant	Less Than	
	louise and Supporting Information Sources	Significant	Incorporated	Significant	No
7 h	The site is not located near any riparian habitat (Source: 13)		1	Innpact	mpaci
7.0	The site is not located near any identified wetlands subject to Secti	ion 404 (So	urce: 12, 13)	A.J. 1.8	-
7.d.	Per the MSHCP the site does not lie within any known wildlife co	orridors (So	urce: 12)		
7.0.	The site is previously disturbed and does not possess any significant	nt biologica	l resources, and do	es not conf	lict
1.0.	with the City's Urban Forestry Ordinance. (Source: 2, 13)	in oronogiou			
7.f.	The site is not located in a biologically sensitive area that would	conflict wit	h the provisions o	f Riverside	County
	Multiple Species Habitat Conservation Plan. (Source: 12)				
8. MI	NERAL RESOURCES. Would the project:				
a.	Result in the loss of availability of a known mineral				
	resource that would be of value to the region and the	1243	1 A S		X
	residents of the state?				
b.	Result in the loss of availability of a locally important				1. 1. 201
	mineral resource recovery site delineated on a local	All Berley		1.10	X
	general plan, specific plan or other land use plan?	1 1 A.B.			
Comm	ents:				
8.a. &	No regionally or locally important mineral resource sites or re-	covery sites	have been ident	ified on an	y plan.
b.	Accordingly, no impacts to regionally or locally important mineral	resources v	vill occur. (Source	: 1)	
9. AC	GRICULTURE RESOURCES. Would the project:				
a.	Convert prime farmland, unique farmland or farmland of			19.2.2	2. 6.
	statewide importance as shown on the maps prepared			5 . 14	100
	pursuant to farmland mapping and monitoring program of	2			Х
	the California resource agency, to non-agricultural use?				
b.	Conflict with existing zoning for agricultural use, or a				
1. 5.	Williamson Act contract?				X
C.	Involve other changes in the existing environment, which,			200	N
	due to their location or nature, could result in conversion of			-	X
	Farmiand, to non-agricultural uses?				
Comm	ente				
	The project is leasted within an area dominated by evicting industry	riel develope	mant and an airman	t Although	the
9.a.	rine project is located within an area dominated by existing industring	tad for indu	atrial development	for docado	The
	site is not shown as agriculturally significant on General Plan Exhi	bit CN 2. A	gricultural Desour	TOT decades	1
Qh	The site is not subject to a Williamson Act contract and is zoned G	eneral Indu	gricultural Resour	ces. (Source	. 1)
9.0	The site is not subject to a will different and will not result in the conve	ersion of loc	al farmland to non	agricultura	luses
9.0	(Source: 1)			-agricultura	i uses.
_					
10. HA	ZARDS AND HAZARDOUS MATERIALS. Would the project	ot:			
а.	Create a significant hazard to the public or the environment				
	through the routine transportation, use, or disposal of			X	
	hazardous materials?				
b.	Create a significant hazard to the public or the environment	T and the d			

	X	
	x	
		x
	x	
		x
		x
		x

Page 22 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No			
10.a., b.	The proposed project is an expansion of an existing waste transfer will take organic municipal waste and partially converts it to Rener production takes place in a 97' tall anaerobic digester that "cooks" biogas (methane). Biogas produced in the digester will be transferr via natural pressure differential. The biogas is then purified and tra circumstances when biogas production exceeds the consumption, e	station to in wable Natur the organic ed to the ab nsmitted to xcess bioga	clude a Green Ene al Gas (RNG). The material and conti- ove ground biogas the onsite fueling s will be diverted a	ergy facility e biogas (RI inuously pro- storage stru facility. In and burned i	that NG) oduces octure in the			
	enclosed emergency flare structure. <u>Biogas/RNG Storage</u> The biogas storage unit is a double membrane system with a useful has a dual function: (1) maintaining a minimum biogas amount so to in case of under-pressure, and (2) leveling off biogas production per the energy conversion equipment. Condensate of the biogas that is condensate vessel. After the biogas storage, the biogas flows to the emergency, e.g., when the biogas production exceeds the biogas co functioning at all, biogas will be diverted and burned in an emergent temperature.	storage cap that biogas c eaks to the P spontaneous Purac purit nsumption c ncy flare, wh	bacity of about 19,0 can always flow ba urac upgrading eq sly produced is col fication process. In fication process. In or if the biogas cor hich is fully enclos	000 cubic fe ack to the di uipment and lected in the a case of asumers are led, at high	eet. It gester 1 then, e not			
	The biogas composition in the storage unit will have a methane concentration much greater than and outside the range required for combustion (which is approximately 10- 20% methane). The storage unit will be under very low pressure (< 20 WC, which is < ³ / ₄ psi). The gas storage unit will be in a classified area (Class 1, Div 1), where sources of ignition will be nonexistent. Safety equipment and gas monitors will be installed appropriately in the vicinity of all gas handling equipment. Extensive training and startup assistance will be provided by the vendors.							
	The truck parking area will be reconfigured for angled parking to a fueling apparatus. Trucks will pull up to the dispensers for fueling. leak will evaporate as gas into the atmosphere.	ccommodate RNG is not	e the proposed slov in liquid form, thu	w-fill RNG is any poten	tial			
	The Southern California Gas Company will design and install the R the quality of the gas for transportation use. The project is required Department of Toxic Substance Control as well as approvals from to the storage and use of hazardous materials. The Fire Department an approve the gas handling process. Regular inspections of the facility Local Enforcement Agency are also required. The City is required to MRF/Composting Facility) of the NDFE to address the proposed ex Energy Facility.	RNG system to acquire a he Riversid d City Build y by the Cou o amend Ta apansion of	The Gas Compan Small Generator I e County Fire Dep ding Inspector will unty Fire Departme ble A-1 (Perris Tra the facility to inclu	y will also Permit from artment reg also inspec ent and Cou ansfer Static ide the Gree	test the arding t and nty on and en			
1.4	Hydrogen Sulfide Control							
	A byproduct of the anaerobic process is Hydrogen Sulfide (H ₂ S) gas commonly found in natural gas and biogas. Being highly toxic and explosive, so H ₂ S is controlled within the digester with Ferric Chlor in anaerobic digestion, and processing wastewater and potable wate the CR&R digester to capture and remove hydrogen sulfide. Ferric ((FeSO ₄), which is a relatively harmless solid that precipitates into the digestate will be very low, in parts per million. The only possibility facility is from a leak in the system. When the system is working pre- ambient environment. As a precaution, H ₂ S sensors will be installed area. Also, personnel will be equipped with H ₂ S sensors when they OSHA, eyewash stations will be located strategically in the process	s, the rotten flammable, ride (FeCl ₃). r. Low level Chloride ties the digestate. for H_2S exp operly, there in several I work in the area. The st	egg smell. Hydrog a mixture of H_2S a Ferric Chloride has s of ferric chloride s up the sulfur as in The levels of iron osure from the Gra- e should be no trac ocations around the process area. As re- orage and use of F	gen sulfide i and air is as many ber e will be use ron sulfate sulfate in th een Energy te of H_2S in the process equired by ferric Chlori	s nefits ed in ne the de			

		Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact				
10.a,	will be s	subject to an updated hazardous materials business plan rev	viewed and a	pproved by the Fi	re Departm	ent and				
cont.	The dig occurs i solids of hygienid	The digestion technology used by the Green Energy Facility was adapted from the spontaneous "dry" digestion that occurs in a landfill. The dry process limits the amount of water that is added to the input waste to keep the total solids of the digestate as solid as possible. The process takes place in an enclosed digester and the final product is a hygienically safe and stabilized product.								
	The feed hazardo	The feedstock obtained from the Stanton MRF is pre-processed and will have been previously inspected for hazardous materials. None are expected to be present.								
	The foll or the er	The following mitigation measures are intended to reduce hazards to the level of less than significant to the public or the environment through the routine transportation, use, or disposal of hazardous materials:								
	Mitigat	ion Measures:								
	HAZ-1:	HAZ-1: Prior to issuance of occupancy permits, the facility operator shall update and implement an approved hazardous materials business plan subject to review and approval by the Fire Department and Riverside County Department of Environmental Health (serving as the State Local Enforcement Agency). The plan will identify all hazardous materials used onsite and their storage and handling procedures.								
	HAZ-2:	HAZ-2: Prior to issuance of occupancy permits, the project shall acquire a Small Generator Permit from the Department of Toxic Substance Control, and approvals from the Riverside County Fire Department regarding the storage and use of hazardous materials.								
	HAZ-3: Prior to issuance of occupancy permits, to control vectors such as flies, rats and birds to avoid the potential spread of health hazards such as disease and litter the Vector Control Plan will be updated to include the new facilities for ongoing site maintenance and the timely removal of recyclables and residual wastes to avoid the attraction of vectors and vector deterrent and eradication procedures.									
	HAZ-4: All operations shall comply with the approved Amended Water Quality Management Plan (WQMP 06- 0158) incorporating Best Management Practices for the control of potentially hazardous materials spills.									
	HAZ-5: The biogas storage unit and anaerobic digester shall be surrounded by bollards for protection from vehicles.									
	HAZ-6: Plant Operations shall be as described in the Training and SOP (Standard Operating Procedures) Manual.									
	HAZ-7: Prior to issuance of occupancy permits, the facility's Fire Control Plan and Emergency Response Plan shall be updated to reflect the new facilities and operations, and be reviewed and approved by the Riverside County Fire Department.									
	HAZ-8:	Portable methane and H2S detectors shall be provided for	workers in	area.						
	HAZ-9:	Extensive Safety Training shall be provided to workers.								
	HAZ-10	HAZ-10: Process Vessels shall be clearly signed with content and quantity. NFPA placards will be posted on all vessels.								
	HAZ-11	: Classified Areas shall have signage indicating spark dang	er and "No	Smoking."						
	HAZ-12	: Process Components and Control Panels shall be clearly 1	abeled with	instructions for pr	oper operat	ion.				
	HAZ-13	: To avoid sparks and accidental ignition, "No Smoking" si	gns shall be	posted throughou	t the facility	<i>.</i>				

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact				
10.a., b., cont.	 HAZ-14: To avoid chemical contamination and injury, Hazmat Pl shall be provided. Eyewash stations shall be installed in ap HAZ-15: To prevent gas leaks, regular inspections and electronic of be provided. All piping will be labeled with its contents readily available. Extensive training and startup assistance HAZ-16: Emergency Biogas Shutoff Valves shall be clearly indica (Source: 22, 24) 	lacards, MS ppropriate le detectors fo and directic e will be pro- ted on the F	DS information, a ocations. r methane and hyd on of flow. Fire ex ovided by the vend Fire Plan and labele	nd Safety T lrogen sulfic tinguishers ors. ed on site.	'raining le shall will be				
10.c.	Perris Lake High School is located approximately 1,100 feet northy However, the Green Energy Facility is approximately 900 feet east approximately 2,000 feet between the operations area and the school school, the mitigation measures listed above and under 10.e., below hazards to schools and other sensitive receptors near the Green Energy	west of the prop of the prop ol. Although w, are antici- ergy facility	project's northwes erty's northwest c n technically not w pated to be adequa . (Source: 25)	t corner. orner for a t vithin a ¼ m te to reduce	otal of iile of a				
10.d.	The City of Perris Comprehensive Land Use Permit Application For Water Resources Control Board's GeoTracker site to determine wh Underground Fuel Tank (LUFT) site or a Spills, Leaks Investigation not listed as a LUFT or SLIC site on the Board's database, nor are immediate area of the site. The proposed project is not located on a Government Code Section 65962.5.	orm requires nether the si on and Clear there any L a site include	s all applicants to n te is identified as a hup (SLIC) site. Th UFT or SLIC sites ed on the list of ha	eview the S Leaking he subject si within the zardous site	itate ite is s per				
10.e.	The project site is located generally across Goetz Road to the west Valley Airport Land Use Compatibility Plan (PVALUCP) was ado is a small, privately owned public airport known primarily as a sky CR&R site is located in Zones C and D of the PVALUCP, with the Zone D allows an average of 100 persons per acre overall and a con regular activities. Due to the newness of the Airport Land Use Plan Plan has not yet been amended to include the PVALUCP, therefore determination of consistency with the PVALUCP by the Riverside (RCALUC).	from the Pe pted on Ma diving desti e Green Ene ncentration a for the Per e this develo County Air	rris Valley Airpor rch 10, 2011. Perri nation (drop zone) rgy Facility is loca of up to 300 perso ris Valley Airport, opment project was port Land Use Co	t. The new 1 is Valley Ai). The 54 ac ated in Zone ns on one ac the Perris C s subject to mmission	Perris rport re D. cre for General a				
	The ALUC Staff Report indicates the project proposes to generate and store fuel above ground on a project site which lies below the General Traffic Pattern Envelope as indicated on the Perris Valley Airport Compatibility Factors Map in Zone D of the PVALUCP. The biofuel generated in the 97' foot tall digester structure (10,000 cubic feet) will be transferred to the 35 foot tall spherical gas storage tank (19,000 cubic feet). According to the applicant, the digester would contain 5.32 million BTUs (MMBtu) (equivalent in energy to 43 gallons of gasoline), and the storage tank would contain 10.11 MMBtu (equivalent in energy to 81 gallons of gasoline). If an aircraft were to crash into one of these structures, gas could escape and the escaping gas would likely be ignited. This could result in a burn or explosion equivalent to 26 or 81 gallons of gasoline, respectively, for the digester and storage tank.								
	According to the PVALUCP, aboveground bulk storage of hazardo Compatibility Zones C or D. However, according to ALUC, this do were to direct impact the digester or the fuel tank. To offset this pot Zone D is generally aligned with the above flight path. The project within Zone D.	us materials bes present a tential hazar proposes a	is not a prohibited hazard to aircraft d, the open space total of 4.8 acres o	d use within if the aircra required wit f open spac	ift thin e				
	con't.		- 4 C.						

I sues and Supporting Information Sources	Issues and Supporting Information Sources	Potentially Significant	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No
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10.e. The project includes an enclosed emergency flare that under normal operating circumstances will be rarely used and is not anticipated to present a potential hazard. However, during the startup phase of the project during the first three months of operation, the flare will be utilized on average 3 hours per day. According to the applicant, the fully enclosed combustion and refractory of the flare eliminates smoke, plume, and sound from the flare.

Both the 97' foot tall digester and 39,000 sf MRF/transfer station structures were submitted to the Federal Aviation Administration Obstruction Evaluation Service (FAA) for review and received a Determination of No Hazard to Air Navigation. The ALUC presented a finding of Conditional Consistency for the project on September 8, 2011, at the regularly scheduled hearing for the project, subject to the Conditions specified below, which include FAA requirements.

ALUC CONDITIONS:

- 1. Any outdoor lighting installed shall be hooded or shielded to prevent either the spillage of lumens or reflection into the sky. Outdoor lighting shall be downward facing.
- 2. The following uses shall be prohibited:
 - (a) Any use which would direct a steady light or flashing light of red, white, green, or amber colors associated with airport operations toward an aircraft engaged in an initial straight climb following takeoff or toward an aircraft engaged in a straight final approach toward a landing at an airport, other than an FAA-approved navigational signal light or visual approach slope indicator.
 - (b) Any use which would cause sunlight to be reflected towards an aircraft engaged in an initial straight climb following takeoff or towards an aircraft engaged in a straight final approach towards a landing at an airport.
 - (c) Any use which would generate smoke or water vapor or which would attract large concentrations of birds, or which may otherwise affect safe air navigation within the area. (Such uses include landscaping utilizing water features, aquaculture, production of cereal grains, sunflower, and row crops, artificial marshes, wastewater management facilities, composting operations, trash transfer stations that are open on one or more sides, recycling centers containing putrescible wastes, construction and demolition debris facilities, fly ash disposal, and incinerators.)
 - (d) Any use which would generate electrical interference that may be detrimental to the operation of aircraft and/or aircraft instrumentation.
- 3. Any ground-level or aboveground water retention or detention basin or facilities shall be designed so as to provide for a detention period for the design storm that does not exceed 48 hours and to remain totally dry between rainfalls. Vegetation in and around such facilities that would provide food or cover for bird species that would be incompatible with airport operations shall not be utilized in project landscaping. Landscaping shall utilize plant species that do not produce seeds, fruits, or berries. Trees shall be spaced so as to prevent large expanses of contiguous canopy, when mature.
- 4. Prior to issuance of building permits, the project developer shall submit to Airport Land Use Commission staff evidence that the Federal Aviation Administration has issued a determination of "Not a Hazard to Air Navigation" for the proposed building expansion.
- 5. All reflective metal components of exterior surfaces shall be painted or covered with a non-reflective material.

			Dotontially Similiant		
		Potentially Significant	Unless Mitigation Incorporated	Less Than Significant	No
10.0	Issues and Supporting Information Sources	Impact		impact	impact
con't.	ALUC CONDITIONS, cont.:				
	6. The open areas indicated on the exhibit provided by the app Plan" shall be kept free and clear of all obstructions as defi Compatibility Plan.	blicant to AL ined by the b	UC titled "Open Riverside County	Space Per Airport La	ALUC nd Use
	7. The Federal Aviation Administration has conducted aeronauti (Aeronautical Study No. 2011-AWP-3914-OE) and the appro- Study No. 2011-AWP-5071-OE) and determined that neither is necessary for aviation safety. However, if marking and/or li- voluntary basis, such marking and/or lighting (if any) shall be Circular 70/7460-1K Change 2 and shall be maintained in acc	ical studies o ved Building marking nor ighting for a installed in cordance ther	f the proposed an MRF Expansion lighting of the pr viation safety are accordance with rewith for the life	aerobic dige (Aeronautic oposed struc accomplishe FAA Adviso of the proje	ester cal ctures ed on a ory ct.
	8. The maximum height of the anaerobic digester, including all exceed 100 feet above ground level, and the maximum eleva 1,530 feet above mean sea level.	l roof-mount ation at the t	ed appurtenances op of the structur	(if any), sh re shall not	nall not exceed
	9. Within five (5) days after construction reaches its greatest Construction or Operation, shall be completed by the project the Federal Aviation Administration Southwest Regional Meacham Boulevard, Fort Worth, TX 76137. The requiremen project is abandoned.	t height, FA proponent of Office Ob t for submitt	A Form 7460-2, or his/her designe struction Evalua tal is also applica	Notice of e and subm tion Group ble in the ev	Actual itted to , 2601 vent the
	10. The specific coordinates, height, and top point elevation or amended without further review by the Airport Land Administration; provided, however, that reduction in building review by the Airport Land Use Commission.	of the propo Use Comming height of	sed anaerobic dianission and the relevation shall	gester shall Federal A not require	not be viation further
	 Temporary construction equipment used during actual construction height of the digester (100 feet above ground level), un Aviation Administration through the Form 7460-1 process. (Source: 8, 9, 22, 23) 	ruction of the nless separat	e anaerobic digest te notice is provi	er shall not ded to the	exceed Federal
10.f.	The project site is not located within the general vicinity of any pri	ivate airport.			
10.g.	The project site is located within an existing industrial zone. It is n	ot located al	ong a major evac	lation route	•
10.h.	This area is not adjacent to any wildlands or underdeveloped hills General Plan does not designate this area to be at risk from wildlar	ides where w	vildland fires might arce: 1)	t be expect	ed. The
11. N	OISE. Would the project result in:				
a.	Exposure of people to severe noise levels in excess of				10 T
	standards established in the local general plan or noise				X
	ordinance, or applicable standards of other agencies?				
b.	Exposure of persons to or generation of excessive ground				X
	born vibration or ground born noise levels?				
C.	A substantial permanent increase in ambient noise levels		2		v
	in the project vicinity above levels existing without the project?				×
d	A substantial temporary or periodic increase in ambient				
u.	noise levels in the project vicinity above levels existing			X	-

Page 27 of 38 September 26, 2011

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
	without the project?				
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?			x	
f.	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				x
Com	ments:				

issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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11.a., CEQA Guidelines identify significant impacts as those that cause standards to be exceeded where they are currently met. The City of Perris Noise Ordinance restricts the maximum noise emanating from the property to 80 dB during the day and to 60 dB at night. The ordinance also limits the allowable off-site noise increase at any residential property line to +1.0 dB above ambient. Noise measurements from the Noise Impact Analysis performed in January 2006 by Giroux and Associates suggest that the existing daytime ambient level is approximately 56 dB for current CR&R activities. As traffic grows along Ellis Avenue in the future, the ambient level will increase.

Operational Noise

For the Green Energy facility, most of the machinery is contained within structures. The machines are designed to have limited sound emissions and to meet the current sound standards (i.e. the sound pressure level measured at a distance of 3 feet is lower than 80 dBA and in most cases lower than 75 dBA). Most of the machines which do not meet the standards can be equipped with additional sound insulation sheathing or can be surrounded with a suitable structure. Examples: the hydraulic units are equipped with a sound insulating sheathing, the shredder equipment can be surrounded by a concrete structure. The feeding pump, the extraction pump and the hydraulic group produce short duration peaks up to 93 dB(A) at 3 feet. Also the hydraulic group for the valves can generate up to 85 dB(A) at 3 feet intermittently, since this equipment doesn't operate continuously. Some equipment is placed on ultrasound silencing devices. Rubber strips are positioned between the equipment and the exhaust air piping, and the complete exhaust system is fastened firmly yet is elastic. The equipment is operated from a control room and is mostly automated.

Construction Noise

Temporary construction noise will result during demolition grading, site preparation and building assembly. Such sources are short-term and thus will not affect the long-term noise exposure in the project vicinity. The City of Perris generally exempts construction activities from performance limits in various sections of the noise ordinance as long as these activities are conducted during hours/days of lesser noise sensitivity. Section 7.34.060 prohibits construction activities during the "quiet" hours of 7 p.m. to 7 a.m. the next day, and at any time on Sundays or major holidays. The ordinance does, however, limit construction activity noise to 80 dB at any residential zone. Given that the peak noise level of some equipment is 90 dB, equipment operations within 160 feet of a residence could constitute a violation of the ordinance. Project construction activities will generally occur beyond 160 feet of any residence, and non-construction baseline noise levels periodically exceed 80 dB. The proposed project is not anticipated to have a significant impact related to any noise ordinance limits, however, to reduce the potential for noise and air quality nuisances, the following items are Conditions of Approval that shall be listed as "General Notes" on the construction drawings:

a. Construction activity and equipment maintenance is limited to the hours between 7:00 a.m. and 7:00 p.m. Per Zoning Ordinance, Noise Control, Section 7.34.060, it is unlawful for any persons between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on a legal holiday, or on Sundays to erect, construct, demolish, excavate, alter or repair any building or structure in a manner as to create disturbing excessive or offensive noise. Construction activity shall not exceed 80 dBA in residential zones in the City.

Pc Sig	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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b. Stationary construction equipment that generates noise in excess of 65 dBA at the project boundaries must be shielded and located at least 100 feet from occupied residences. The equipment area with appropriate acoustic shielding shall be designated on building and grading plans. Equipment and shielding shall remain in the designated location throughout construction activities.

- c. Construction routes are limited to City of Perris designated truck routes.
- d. Water trucks or sprinkler systems shall be used during clearing, grading, earth moving, excavation, transportation of cut or fill materials and construction phases to prevent dust from leaving the site and to create a crust after each day's activities cease. At a minimum, this would include wetting down such areas in the later morning and after work is completed for the day, and whenever winds exceeds 15 miles per hour.
- e. A person or persons shall be designated to monitor the dust control program and to order increased watering as necessary to prevent transport of dust off-site. The name and telephone number of such persons shall be provided to the City.
- f. Project applicant shall provide construction site electrical hook ups for electric hand tools such as saws, drills, and compressors, to eliminate the need for diesel powered electric generators or provide evidence that electrical hook ups at construction sites are not practical or prohibitively expensive.
- g. All construction equipment will be provided with approved muffler systems.

The current proposal for the Green Energy facility is located over 1,000 feet from the closest residences north of Ellis Avenue, and approximately 1,500 feet from the Hunt Club apartments. Any noise from the Green Energy facility (other than temporary construction noise) is not anticipated to be discernible from regular operational noises in these locations.

Traffic Noise

Site access traffic noise was examined prior the CR&R expansion approved under Major Modification 06-0158. The on-road traffic noise from up to 500 trucks per day is 63 dB CNEL at 50 feet from the centerline. The General Plan build-out traffic noise forecast for Goetz Road is 69 dB CNEL at this distance. The combined noise level is 70 dB, or a 1dB increase. The project truck noise contribution is well below the 3 dB significance threshold. Ambient noise levels will mask any project contribution on public roadways. For the Green Energy facility, approximately 240 daily vehicle trips in Passenger Car Equivalents will be generated for the ultimate employee and truck trips. These trips have been previously accounted for in the projected trip generation increase.

In summary, operational noise will result from the disposal and recycling of waste within an enclosed building. Mobile equipment (refuse trucks, recycling trucks and materials movement) will also create noise, as will the temporary construction activities. Because most such activities will occur within an enclosed building with substantial distance setback from residential development, noise impacts from the operation of the Green Energy Facility will not exceed City standards and will be a less than significant impact.

(Source: 1, 14, 18, 22, 23)

11.b. Ground vibrations may occur during the waste transfer operations. Incoming wastes will be dumped on a concrete tipping floor within the transfer building, creating some ground vibration within the building. The extent of ground vibration will be limited to within the transfer building and will not migrate offsite, therefore any potential impact will be minimal and considered insignificant. (Source: 14)

Page 30 of 38 September 26, 2011

			Potentially Significant					
	Lucia and Connection Information Sources	Potentially Significant	Unless Mitigation Incorporated	Less Than Significant Impact	No			
44.0	Issues and Supporting information Sources	lev Airport	on the east side of	of Goetz Roa	ad. The			
n.e.	Derris Valley Airport Land Use Compatibility Plan (PVALUCP)	was adonte	d on March 10. 2	2011. Perris	Valley			
	Airport is a small privately owned public airport known primarily as a skydiving destination (drop zone). CR&R							
	Airport is a small, privately owned public airport known primarily as a skyleting destination (drop 2010); other							
	average of 100 persons per acre overall and a concentration of up	to 300 pers	ons on one acre fo	or regular ac	tivities.			
	According to Man PV-3 of the PVALUCP. Ultimate Noise Impac	ts, the Green	n Energy facility s	ite is locate	d in the			
	55 dB CNFL noise contour which is considerably less than th	ne maximun	n noise level typi	ical in the (General			
	Industrial (GI) Zone, General Plan Exhibit N-1, Land Use/Noise	Compatibili	ty Guidelines, ind	icates that a	CNEL			
	under 60 is normally acceptable for low density residential deve	lopment, m	eaning no special	noise insul	ation is			
	required. Thus, since the Green Energy facility will comply wi	th the PVA	LUCP, and the C	NEL of the	e Perris			
	Valley Airport activity is less than 60, the proposed project wou	ld not expo	se people residing	g or working	g in the			
	project area to excessive noise levels. (Source: 1, 6)							
11.f.	The proposed project is not located in the vicinity of a private airst	trip.						
12 6	UBLIC SERVICES: Would the proposal have an effect up	on. or resu	ult in a need for	new or all	tered			
12. (Government services in any of the following areas:	,						
10	144 Little and a south in automatical advance physical	1	<u> </u>	T	Г			
12.a.	would the project result in substantial adverse physical	1.		S. 1963	1.00			
	impacts associates with the provisions of new or physically							
	altered governmental facilities, the construction of which	1. 2						
	allered governmental facilities, the construction of which			x				
	maintain accontable service ratios response times or other				Paul I			
	national acceptable service ratios, response times of other	10-12-12						
12 h	Fire protection?			X				
12.0.	Police protection?			X				
12.0.	Schools?			X				
12.0.	Darke?			2.5	X			
12.e. 12 f	Other public facilities?			X				
12.1.								
Comn	nents:							
12.a.	Development of the proposed project will not create an increa	se in the d	emand for govern	nmental and	l public			
& f.	services beyond that required for the current land use, which are c	onsidered m	itigated by the Ci	ty of Perris	through			
•	the payment of development impact fees. The Green Energy	Facility wi	ll reduce landfill	trips by re	cycling			
	municipal waste. (Source 1, 22)							
12.b	Fire protection is provided by the City of Perris and the Riverside	County Fire	Department. The	closest City	/ fire			
	station to the project is located approximately 1/2 mile north of the	site. Onsite	fire protection will	ll include fir	e			
	hydrants and fire extinguishers located as required by the City of I	Perris Fire M	Iarshal. Sprinkler	systems will	l be			
	installed in Green Energy Facility buildings as required by the Fin	e Marshal. A	A fire protection pl	lan has been				
	prepared and implemented for the existing facility which includes	training for	all employees, pro	ocedures for	•			
	handling potential onsite fires, and evacuation routes. The facility	will be com	nected to domestic	water lines				
	provided by the EMWD. Prior to issuance of occupancy permits,	all onsite fir	e protection syster	ns shall be				
	reviewed and approved by the Fire Marshal. (Source: 1, 2, 23, 25)							
12.c.	Police protection for the proposed project will be provided by the	Perris Polic	e and Sheriff's De	partment as	part of			
	the existing land use. Onsite security features include perimeter w	alls and fend	cing, security light	ting, and det	ection			
	systems. The project will be conditioned to submit a lighting plan	for review a	and approval by th	e Developm	ient			
	Services Department prior to issuance of building permits. (Source	e: 1, 22, 23)			1-			

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
12.d.	The project is industrial in nature and is not likely to significal Energy facility is expected to generate up to 20 new jobs. New en areas, possibly resulting in an increase in school-aged children to to pay school mitigation fees as adopted by the local school distri- children. (Source: 1, 22, 23)	intly impact mployees co the local so cts to offset	local schools. The uld move into the chool district. The the impact of add	ne proposed City from o project is re itional school	Green utlying equired ol-aged
12.e.	The proposed project is an industrial use and not subject to the Qu existing park facilities, and therefore, impacts are not anticipated. impact fees that include park fees. (Source: 1, 22, 23)	imby Act. It The project	will not induce ac is required to pay	dverse impao developmen	ets to
12.f.	The proposed project will not result in a significant impact to other administrative services, libraries, or other public facilities. (Source	r public faci e: 22)	lities such as gene	ral City	
13. l	JTILITIES AND SERVICE SYSTEMS: Would the project:				
a.	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				X
b.	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			x	
с.	Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			x	
d.	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				x
е.	Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				x
f.	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				X
g.	Comply with federal, state, and local statutes and regulations related to solid waste?			X	
Comn	nents:				
13.a	The proposed project is currently connected to existing sanitary set treatment plant operated by Eastern Municipal Water District (EM expansion will generate a small amount of wastewater from the an the use of approximately 7,200 gallons per day of potable water in recyclable materials. The system is designed to use a recirculating sewer. The expansion will also require a small increase in total em	wer mains v (WD). The p aerobic prod the anaerob water system ployee court	which transport was proposed Green En cess. The proposed bic digester for the m to minimize any at that will result in	stewater to a lergy facility l project req processing wastewater a minor ind	a vuires of to the crease
10 5	wastewater generated by restroom facilities. The proposed project (Source: 22)	does not rec	quire the use of cla	trifiers.	WD
13.D	In existing and proposed plumbing fixtures are connected to sever located in Ellis Avenue provides domestic wastewater collection. I through water mains located in both Ellis Avenue and Goetz Road required for the proposed Green Energy facility. (Source: 22)	Domestic wa	ater is also provide nal water or waste	ed by EMW	D ties are

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact		
13. c.	The proposed expansion will result in the creation of a small amound lane and a 5-stall parking lot to serve the Green Energy facility. And creation of new impervious surfaces will be managed onsite throug basins. No new public drainage improvements are required for the conditioned to prepare and submit an updated drainage plan and hy Amended WQMP prior to the issuance of grading permits. All pub- designed in accordance to the standards of the City of Perris and the Conservation District. (Source: 11, 23)	int of impervision ny increases gh an amence proposed ex ydrology stu- plic and priv- ne Riverside	vious paving for the in drainage result led WQMP and ex- pansion. The pro- idy to the City En- ate drainage facili County Flood Co	ne required f ing from the kisting deten ject will be gineer as par ties shall be ontrol and W	tion tion t of the ater		
13.d.	EMWD owns and maintains all domestic water lines servicing the project site. The proposed expansion will require the extension of onsite fire protection systems to the Green Energy facility area. The anaerobic process will use a recirculating water system to reuse its water and therefore significantly reduce its demand. Design and construction of all onsite water facilities shall be in accordance with the standards and requirements of the EMWD and City of Perris. (Source: 22, 23)						
13.e.	The proposed project is served by existing sanitary sewer mains th Municipal Water District treatment plant. The expanded facility w wastewater that would require expansion of the EMWD plant. (So	nat will trans will not gene ource: 22)	port wastewater to rate significant qu	o an Eastern antities of			
13.f.	The remaining approximately 10-20% non-renewable/nonrecyclable materials remaining from the anaerobic processing from the Green Energy facility will be transferred to landfill along with other CR&R solid waste. The CR&R facility is intended to transfer local municipal solid wastes to any approved landfill. The primary landfills designated to receive wastes from this facility include the Badlands Landfill located approximately 14 miles northeast of the project site and the El Sobrante Landfill located approximately 17 miles west of the project site. The Badlands landfill is owned and operated by the County of Riverside and has a remaining capacity of approximately 21,866,000 cubic yards with a permitted capacity of 4,000 tons per day. The El Sobrante Landfill is owned and operated by Waste Management, Inc., and has a remaining capacity of 172,531,000 cubic yards with a permitted capacity is designed to reduce this waste stream by up						
13.g.	The existing CR&R facility is compliant with federal, state, and lo as required by the City of Perris and Riverside County. CR&R ha County Local Enforcement Agency and clearances from the South amendment to the City's Nondisposal Facility Element (NDFE) is period). The NDFE amendment is tentatively scheduled for a Deco for approval. All permits will be updated through the appropriate a Facility prior to commencement of operations of the expanded fac (Source: 17, 20, 22, 23)	ocal statutes is a State Op o Coast Air (required, ar ember, 2011 agency for the ility.	and regulations re perating Permit fro Quality Management and in process (90-c Perris City Coun- the operation of the	lated to solid m the Rivers ent District. lay noticing cil public he Green Ener	d waste side An earing rgy		
14. A	ESTHETICS. Would the project:			I 			
14.a.	Have a substantial adverse effect on a scenic vista?			<u> </u>			
14.b.	Substantially damage scenic resources, including, but not limited to, trees, rock outcropping, and historic building within a state scenic highway?				x		
14.c.	Substantially degrade the existing visual character or quality of the site and its surroundings?			X			

	Is used Supporting Information Sources	Potentially Significant	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No	
4.4	Issues and Supporting Information Sources	MRE facilit	v The site is locat	ed within a	n mpact	
14.a. & C.	existing industrial area and is designated as a General Industrial lan Zoning Map. Existing heavy industrial development is located impresidential development is located to the north and west, however the area for the Green Energy Facility.	nd use on the mediately ea these proper	e City of Perris Ge ast and south of the ties are not adjace	eneral Plan a e facility. Ex nt to the exp	and xisting pansion	
	According to the Line of Sight exhibit prepared with the developmed Green Energy facility will be the 97' foot tall anaerobic digester the entrance to the CR&R facility from Goetz Road and Ellis Avenue. will be approximately 960 feet from Malbert Street to the south an AT&SF rail lines to the west, and 1,370 feet from Goetz Road to the tank (35 feet), gas upgrade silos (45 feet), flare silo (25 feet) and be adjacent right-of-ways due to intervening screen walls (Ellis Avenue equipment, the anaerobic digester, is not anticipated to be noticeable entrance) either by pedestrians on the sidewalk or to passing vehic entrance to the site, the digester and tank farm will be painted in ear building) and Snowdrift White, a grayish white that will be utilized equipment. Roofing for buildings will be a low-reflecting galvaniz To mitigate views onto the CR&R operations site, prior Conditionar required the installation of approximately 147,277 square feet of la Avenue and Goetz Road, and construction of a 12-foot high decorar Road. The proposed project also includes a truck fueling area in an feet from the Ellis Avenue right of way, however the 12-foot high With these measures incorporated into the project design, the Greet significant impact on the existing visual character or quality of the	the time plans, trans at will likely. Aerial map ad Ellis Aver he east. Other oulk scrubber oulk scrub oulk scrubber oulk scrubb	the most nonceable y be partially visit measurements income to the north, 1, er equipment inclu- r (22 feet), will no accent properties. The etz Road (except a er views from Ellis 'Khaki (digester, et storage tank and y alvalume. al for Major Modi- along the entire fro- ry wall along Ellis rking lot located a will prevent views acility will have a surroundings.	fication 06-to a sinto the case of the cas	gester m the storage from nd the ng 0158 th Ellis d Goetz ly 10 e.	
14.b.	The project is not located near a state scenic highway. Therefore,	, there will way. (Source	not be any potenti e: 1, 22)	al impacts t	to trees,	
14.d.	rock outcroppings, or historic buildings within a state scenic highway. (Source: 1, 22) The site will be lighted at night for security purposes, however this lighting will not adversely affect day or nighttime views in the area. The maximum height of all exterior lights including those lights mounted on structures will not exceed 18 feet. All on-site lighting will comply with the City of Perris Lighting Ordinance and the requirements of Zone B of the Palomar Observatory dark skies regulations. The site will utilize lighting fixtures with full cut-off features to prevent light escaping above the horizontal plane of the bottom of the light fixture to					
	minimize glare onto adjacent properties. (Source: 2, 22, 23)				-	
15. C	ULTURAL RESOURCES. Would the project:		1.1.12			
a.	Cause a substantial adverse change in the significance of a historical resource as defined in Section 1506.5?				X	
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 1506.5?				X	
C.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				X	
d.	Disturb any human remains, including those interred outside of formal cemeteries?				X	
Com	nents:				ŕ	

Page 34 of 38 September 26, 2011

	Increase and Comparting Information Sources	Potentially Significant	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No
15 a	The site is located within an existing industrial development on	a previously	graded pad. Th	ere are no a	areas of
h c	undisturbed earth remaining on the site. No historic, archeologic	al, or paleon	tological artifact	s were ident	tified in
2, C,	the 1001 survey (Source: 1 24)	, F	0		
au					1.20
16. RI	ECREATION. Would the project:				
a.	Would the project increase the use of existing			124.20	X
	neighborhood and regional parks or other recreational				
	facilities such that substantial physical deterioration of the				1
	facility would occur or be accelerated?				
b.	Does the project include recreational facilities or require			The state	X
	the construction or expansion of recreational facilities,				
	which might have an adverse physical effect on the	10 A 10		1.1.1	15 0
	environment?			125	
		1.1.1	Sec. 35.26		
Comn	nents:	aamuiaa ta ita	local service are	a The site (loes no
16.a.	The proposed project is industrial in nature and provides a public	service to its	s local service are	a. The site of	1003 110
& b.	require any recreational services. (Source: 22)				
17. M/	ANDATORY FINDINGS OF SIGNIFICANCE.			1	-
a.	Does the project have the potential to degrade the quality		1		100
	of the environment, substantially reduce the habitat of a		1. 1. S.		101
	tish or wildlife species, cause a fish or wildlife population to				× ×
	drop below self-sustaining levels, threaten to eliminate a	1.1		1. 1.4	^
	plant or animal community, reduce the number of restrict	STATE IN ST	224-1273	- Courses	100
	the range of a rare or endangered plant or animal or	Sec. 1	63. (T. 1)		
	eliminate important examples of the major periods of			1.25	
	California history or prehistory?				
b.	Does the project have the potential to achieve short-term,		A 19 8 4 4 3	Carl Street	V
	to the disadvantage of long term, environmental goals?				
C.	Does the project have impacts that are individually limited,				
	but cumulatively considerable? ("Cumulatively			1.22	
	considerable" means that the incremental effects of a		4 8 ° 9 S S		V
	project are considerable when viewed in connection with		1.1.1.1.1.1.1.1	19	^
	the effects of past projects, the effects of other current	1	1		
	projects, and the effects of probable future projects)?				+
d.	Does the project have environmental effects, which will	and the second second		v	1
	cause substantial adverse effects on human beings, either	1.			
	directly or indirectly?				
Comr	nents:				
17.a.	The proposed project will be developed on previously disturbed in	ndustrial land	i currently used for	or storage of	r empty
	cargo containers. The project has no potential to degrade the qual	ity of the env	ironment, substa	ntially reduc	e the
	habitat of a fish or wildlife species, cause a fish or wildlife popula	ation to drop	below self-sustain	ning levels o	r
	threaten the elimination of a plant or animal community. No enda	ingered or thi	reatened were obs	erved onsite	e, and
	no important examples of California history or prehistory are pres	sent at the site	e. (Source: 24)		

	Issues and Supporting Information Sources	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact				
17.b.	7.b. The proposed project is designed to reduce the amount of waste going to landfill and increase recycling of								
	recoverable organics associated with the projected future demand for waste management services in southwest								
1.0	Riverside County. The byproducts from the anaerobic process, mu	lch and natu	ral gas, are renew	able resourc	ces, and				
2.4	the recovery and reuse of secondary materials from the main facilit resources $(17, 20, 22)$	ty will resul	t in a long term sa	vings of nat	ural				
17 c	The project site has been designated for industrial development un	der the City	's General Plan. C	umulative i	mpacts				
17.0.	associated with future development, including the ultimate develop	oment of the	site for general in	dustrial use	, was				
	evaluated as part of the General Plan's EIR. This included the cum	nulative imp	acts associated wi	ith traffic an	ıd				
	circulation, public services and facilities, population, and air qualit	y. (Source:	1)						
17.d.	The project will not result in environmental effects that may cause	substantial	adverse effects on	human bein	ngs,				
	including, air quality emissions and hazardous materials, because r	nitigation ha	as been incorporat	ed into the	project				
And a second	that will reduce all potential impacts to humans to a level of insign	ificance. (Se	ource: 1, 23)						
18. E oth de sho	EARLIER ANALYSES. Earlier analyses may be used where, point of the cell of the	oursuant to analyzed ir nould identi	the tiering, prog n an earlier EIR of fy the following of	ram EIR, c or negative on attached	r ; ; ;				
a.	Earlier analyses used. The sources of earlier analysis used for thi sources. All documents are available at the City of Perris, Develor 135 North "D" Street, Perris, CA 92570.	s environmore service	ental analysis are ices Department,	listed below Planning D	w under vivision,				
a. b.	 Earlier analyses used. The sources of earlier analysis used for this sources. All documents are available at the City of Perris, Develor 135 North "D" Street, Perris, CA 92570. Impacts adequately addressed through the proposed Mitigation M and Hazards. 	s environmo opment Serv Monitoring I	ental analysis are ices Department, Program 11-04-00	listed below Planning D 01 for Air	w under Division, Quality				

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- 1. City of Perris General Plan 2030 (2005): www.cityofperris.org
- 2. City of Perris Zoning Code (Chapter 19): www.cityofperris.org
- 3. Air Quality Impact Analysis, Green Energy Facility, City of Perris, CA. Giroux & Associates (June 7, 2011) with appendices (CalEEMod Output Annual & Summer)
- 4. Geological Investigation for Design and Construction of the CR&R expansion prepared by Harrington Geological Engineering, December 13, 2005, with Addendum dated January 17, 2006.
- 5. Federal Emergency Management Agency Flood Insurance Rate Map #060258-0010-D (July 2, 1992)
- 6. Perris Valley Airport Land Use Compatibility Plan, March 10, 2011: www.rcaluc.org/plan_perris_valley2010.asp
- 7. Countywide Policies of the 2004 Riverside County Airport Land Use Compatibility Plan: www.rcaluc.org
- 8. Riverside County Airport Land Use Commission (ALUC) Staff Report ZAP1004PV11 CR&R Inc., September 8, 2011
- 9. Federal Aviation Administration Aeronautical Studies No. 2011-AWP-3914-OE and 2011-AWP-5071-OE.
- 10. Stormwater Hydrology Report, CR&R Perris Transfer Station, J.R. Miller & Associates, Inc. (November, 2008)
- 11. Green Energy Project Amended Preliminary Water Quality Management Plan (WQMP) 06-0158, J.R. Miller & Associates (approved August 8, 2011); CR&R WQMP 06-0158 (approved August 24, 2006)
- 12. Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Volume 1, "The Plan", Part 1 of 2, and Part 2 of 2, 2003: http://www.rctlma.org/mshcp/
- 13. Focused Habitat Assessment and Protocol Survey for the Burrowing Owl, Report Date 5-9-2011, Kidd Biological, Inc.
- 14. Noise Impact Analysis, CR&R Perris Recycling Facility Expansion, Giroux & Associates (January 26, 2006)
- 15. Odor Impact Discussion, CR&R Perris Recycling Facility Expansion, Giroux & Associates (January 26, 2006)
- 16. Perris Transfer Station/MRF SCAQMD Rule 410 Odor Management Plan
- 17. California Department of Resources Recycling and Recovery (CalRecycle): www.calrecycle.ca.gov
- 18. Traffic Impact Analysis, Perris MRF Project, Kunzman Associates, Inc. (June 15, 2006, revised November 8, 2006).
- 19. Trip Generation Analysis (Revised) Supplement, Green Energy Project, Kunzman Associates, Inc. (May 25, 2011) with Appendices (A: Glossary of Terms and B: see Project Description, No. 22, below).
- 20. Riverside County Waste Management District website: www.rivcowm.org
- 21. CARB Expanded List of Early Action Strategies (October 2007); CARB website accessed May 31, 2011: www.arb.ca.gov/cc/ccea/meetings/ea_final_report.pdf
- 22. "Project Descriptions Process Flow Diagrams and Photographs of Similar Facilities," CR&R, Inc. for the Green Energy Project/Slow-fill CNG Truck Fueling Facility, April 5, 2011/Revised April 25, 2011
- 23. Major Modification 11-04-0001 [Project] Draft Conditions of Approval
- 24. Initial Study for Major Modification 06-0158 (August 15, 2007)
- 25. Digital Map Central, copyright 2010 Digital Map Products: http://maps.digitalmaps.central.com

GREEN ENERG	Y FACILITY - CR8	R, INC.				
MAJOR MODIFICATION 11-04-00	01 MITIGATION N	NONITORING P	ROGRAM			
MITIGATION MEASURE	TIMING	VERIFICATION OF COMPLIANCE				
		Dept.	Signature	Date		
AIR QUALITY						
AIR-1: The Perris plant manager, using probes and through direct observation, shall monitor the biofilter on a weekly basis to ensure that air is circulating through the biofilter properly, and that the moisture level is sufficient to maintain the microorganisms.	During ongoing facility operations	Facility Operator, County LEA				
AIR-2: At completion of Phase 3 of the Green Energy project, at least 25% of the feedstock delivery shall be by CNG-fueled trucks.	By completion of Phase 3 of project	Facility Operator, County LEA				
HAZ-1: The facility operator shall update an approved Hazardous Materials Business Plan subject to review and approval by the Fire Department and Riverside County Department of Environmental Health (serving as the State Local Enforcement Agency). The plan will identify all hazardous materials used onsite and their storage and handling procedures.	Prior to issuance of occupancy permits/ Ongoing facility operation	Building & Safety Division, County LEA				
HAZ-2: The facility operator shall acquire a Small Generator Permit from the Department of Toxic Substance Control regarding the storage and use of hazardous materials.	Prior to issuance of occupancy permits	Facility Operator, County LEA				
HAZ-3: To control vectors such as flies, rats and birds to avoid the potential spread of health hazards such as disease and litter, the Vector Control Plan will be updated to include the new facilities for ongoing site maintenance and the timely removal of recyclables and residual wastes to avoid the attraction of vectors and vector deterrent and eradication procedures.	Prior to issuance of occupancy permits	Facility Operator, County LEA				
HAZ-4: All operations shall comply with an approved Water Quality Management Plan (WQMP) incorporating Best Management Practices for the control of potential hazardous materials spills.	Ongoing facility operation	Facility Operator, City Engineer, County LEA				
HAZ-5: The anaerobic digester, biogas storage tank, and biogas dispensing unit shall be surrounded by bollards to protect it from vehicle damage in the operations area and fueling area.	Prior to issuance of occupancy permit	Building & Safety Division, County LEA				
HAZ-6: Prior to issuance of occupancy permits, the facility's Fire Control Plan and Emergency Response Plan shall be updated to reflect the new facilities and operations, and be reviewed and approved by the Riverside County Fire Dept.	Prior to issuance of occupancy permits	Facility Operator, County Fire (CalFire)				

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GREEN ENERGY FACILITY - CR&R, INC. MAJOR MODIFICATION 11-04-0001 MITIGATION MONITORING PROGRAM						
MITIGATION MEASURE	TIMING	VERIFICATION OF COMPLIANC				
		Dept.	Signature	Date		
HAZ-7: All facility employees shall be trained in hazardous materials spill response and cleanup.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-8: The Renewable Natural Gas (RNG) piping, fueling plans and gas product shall be reviewed, tested and accepted by the Southern California Gas Company.	Prior to issuance of building permits	Southern California Gas Co., Building & Safety Div., County LEA				
HAZ-9: For plant operations, a Training and SOP (Standard Operating Procedures) Manual shall be prepared and in place.	Prior to issuance of occupancy permits	Facility Operator, County LEA				
HAZ-10: To prevent gas leaks, regular inspections and electronic detectors for methane and hydrogen sulfide shall be provided. All piping will be labeled with its contents and direction of flow.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-11: Process vessels will be clearly signed with content and quantity. NFPA placards will be posted on all vessels.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-12: Classified or Restricted Areas will have signage indicating spark danger and "No Smoking."	Ongoing facility operation	Facility Operator, County LEA				
HAZ-13: All Process Components and Control Panels shall be clearly labeled and only trained personnel will operate.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-14: To avoid sparks and ignition, signage indicating spark danger and "No Smoking" shall be posted throughout the facility site.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-15: To avoid improper contact with chemicals, Hazmat Placards, MSDS information, and Safety Training will be provided. Eyewash stations shall be installed in appropriate locations.	Ongoing facility operation	Facility Operator, County LEA				
HAZ-16: Emergency Biogas Shutoff Valves shall be clearly indicated on Fire Plan and labeled on site.	Ongoing facility operation	Facility Operator, County LEA				

California Energy Commission STAFF REPORT

LOCALIZED HEALTH IMPACTS REPORT

Addendum For Selected Biomethane Production Projects Awarded Funding Through the Alternative and Renewable Fuel and Vehicle Technology Program Under Solicitation PON-09-003

> MARCH 2011 CEC-600-2010-004-AD

CALIFORNIA ENERGY COMMISSION

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DISCLAIMER

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ADDENDUM

The Localized Health Impacts Report for Selected Biomethane Production Projects Awarded Funding Through the Alternative and Renewable Fuel and Vehicle Technology Program Under Solicitation PON-09-003 was posted May 18, 2010, and the 30-day public comment period ended June 17, 2010. On January 28, 2011, the California Energy Commission posted a Revised Notice of Proposed Awards resulting in an additional project proposed for funding under PON-09-003. This addendum assesses and reports on the potential localized health impacts of this additional fuel production project recommended for funding in the current 2010-2011 funding cycle.

The project assessed in this addendum is:

CR&R Incorporated's, "CR&R MSW to Biomethane Project"

This project requires a full assessment and will be subject to the 30-day public review period that applies to projects that have a potential effect on low-income communities highly impacted by pollution. The table below summarizes the project and its surrounding community.

Project	At-Risk Community	CEQA Completed	Air District Permit Status	Attainment Status for Ozone, PM(2.5), PM(10)
CR&R	Х	Х	In Progress	Non-Attainment (All)

Table 1: Community Status and Project Overview

Source: Energy Commission staff analysis

The following is an overview of the project including a project description, information on the existing site, discussion of the potential health impacts related to air pollutants, and outreach efforts explicitly identified in the project proposal. In addition, demographic data for the known or planned project location is provided in Table 4.

Staff reviewed results from the Environmental Justice Screening Method (EJSM) to identify projects that are located in areas with social vulnerability indicators (for example, race/ethnicity, income, proximity to sensitive land use, and exposure to air pollution) and the greatest exposure to air pollution and associated health risks. For communities not yet assessed in the EJSM, the Energy Commission identified high-risk areas as those in non-attainment air basins for ozone, particulate matter (PM) (2.5), and PM (10) that have high poverty and high minority rates, as well as a high percentage of sensitive populations.

Project Name

CR&R Incorporated's "CR&R MSW to Biomethane Project

Project Description

CR&R will construct a municipal solid waste (MSW) processing facility that will convert 50,000 tons per year of mixed municipal waste into renewable natural gas that will be used as a transportation fuel. CR&R is a large waste and recycling firm that serves 2.5 million customers and 40 municipalities in Southern California. The MSW processing facility will be constructed at CR&R's Perris, Riverside County, Material Recovery and Transfer Station (Perris MRF). The MSW will be separated from the general waste stream at the transfer station. CR&R will process the waste using a first-in-North America wet separation technology from Arrow Ecology to extract recyclable materials and segregate nonrecyclable inert waste. Biodegradable materials that are separated from the balance of the waste stream will be pumped into a two-stage anaerobic digestion system to produce renewable natural gas.

CR&R originally configured this project to produce biogas for power generation. Energy Commission funds will support CR&R's efforts to use this fuel for transportation fuel for their fleet. CR&R operates an alternatively fueled truck fleet of more than 100 refuse hauling vehicles and plans to add more alternatively fueled vehicles to its fleet. CR&R will use all of the renewable natural gas produced by this project for this fleet. The renewable natural gas will be cleaned to pipeline quality natural gas using proven technology from Purac of Sweden. The renewable natural gas will be injected into Sempra's natural gas pipeline where it will be distributed by Shell for use as a transportation fuel by CR&R's off-site fueling station in Garden Grove, California. The system upgrades funded by this project will include installation of new equipment to inject the renewable natural gas into the existing gas pipeline. CR&R will own and operate the facility; the City of Los Angeles will provide a long-term source of waste to the facility and a revenue base to support the project.

Project Site

The project will be located at the Riverside County/Perris Material Recovery and Transfer Station at 1706 Goetz Road, Perris, California. The project will use anaerobic digesters to make biogas from mixed municipal solid waste (MSW) from the Los Angeles at the existing material recovery and transfer facility. The location is currently permitted to accept the MSW feedstock for digestion. CR&R completed a mitigated negative declaration CEQA agreement with the City of Perris/Riverside County to increase the MSW tonnage from 1,800 tons per day to 3,000 tons per day. The biogas will be injected into an existing Sempra natural gas pipeline to CR&R's existing offsite fueling station for use in its natural gas vehicle fleet, which eliminates the need for an additional pipeline.

This facility is located in a nonattainment area for ozone, particulate matter (10 micron), and particulate matter (2.5 micron) pollutants. There are three schools, no day care centers, and no health care facilities within a mile of the project site.

Potential Impacts and Benefits

According to the CR&R Environmental Assessment conducted in 2007, some impacts are expected from expansion of the facility and the increased truck traffic needed to transport larger volumes of waste to the facility. Impacts from the expansion and increased tonnage include water runoff, increased hazardous materials at the facility, air quality impacts from increased waste and traffic into the facility, and short-term construction emissions. The Energy Commission is funding a modification to the original project that will allow the renewable natural gas to be used for transportation. The only identified net increase in emissions will be from emergency flaring on the anaerobic digester. These emissions are difficult to quantify, as the emergency flare will be not by used on an ongoing basis.

According to the California Air Resources Board's *Air Quality Guidance for Siting Biorefineries in California* there are criteria emissions associated with anaerobic digestion processes. However the emissions are considered minimal, and with the Best Available Control Technology, the most stringent emission limits for the criteria emissions can be achieved. The environmental assessment indicated that the following factors may have an impact on the surrounding communities. However, it is important to note that these impacts are not attributed to the expansion of the project that will enable transportation fuel production. The environmental impact report analyzed project impacts and criteria and toxic emissions. Energy Commission staff summarized these impacts below.

For a five-acre disturbance area with the use of only minimum construction dust control, daily PM1O emissions during site grading could reach 132 pounds per day. The South Coast Air Quality Management District (SCAQMD) significance threshold of 150 pounds per day would not be exceeded. With the use of Best Available Control Measures (BACM), daily PM10 emissions are reduced to 50 pounds per day, or well below the AQMD's significance threshold. Use of BACMs is required for all construction activities. Since the threshold for PM10 is three times the generation rate for a mitigated five-acre site, up to 15 acres may be graded per day without exceeding the threshold.

The proposed expansion requires the construction of approximately 10.85 acres of paved parking lots and processing areas. This will increase the amount of impermeable surface and, thus, increase site runoff. Without proper mitigation, this runoff could contribute to the local area and regional storm flows. There is also a potential for any storm water leaving the site to contain pollutants, such as grease and oil from parking lots. Waste materials coming into contact with storm water may result in a degradation of surface and groundwater quality. To protect surface and groundwater, all material handling activities occur within enclosed buildings or on paved surfaces. The operations area is completely paved in asphalt concrete or Portland concrete to further protect surface and groundwater from possible contamination.

Operational impacts will result from a combination of onsite activities (waste handling, sorting, recycling, and loading transfer vehicles) and from on-road travel by collection recycling and transfer vehicles. Onsite emissions will include exhaust from on-road vehicles and from materials handling equipment, dust from refuse and construction and demolition processing, and odors from trash and green waste.

CR&R expects this project to bring improvements to air quality, especially as more firms adopt the anaerobic digester technology to generate vehicle fuel. The anaerobic digestion project will improve air quality by reducing odors and emissions from the MSW at the landfill. Anaerobic digestion of the waste eliminates the need to landfill the waste. By diverting this waste to digesters, emission reductions are realized. Since the biomethane will be compressed and injected into the Sempra natural gas pipeline, there will be no onsite emissions as there would be if the biomethane were burned in an internal combustion engine to make electricity. Additionally, no new emissions are generated through the delivery of the fuel to offsite stations because the biogas is injected directly into the pipeline.

The emissions associated with the disposal of 3,000 tons per day (tpd) in 2008 at the transfer station will generate fewer emissions than those currently generated by on-road traffic from the disposal of 1,800 tpd in 2006. Furthermore, it is anticipated that the use of the anaerobic digester to process some of this waste will further reduce emissions and odors coming from the facility.

Any impact associated with the project will be mitigated to less than significant levels by the mitigation monitoring plan prepared with the mitigated negative declaration. The Plan finds that no new impacts are anticipated by construction of the building addition. CR&R has also taken all steps to prevent any negative impacts from occurring from the expansion of the facility. Potential emissions may result from the use of the emergency flare from the anaerobic digester; however, this flare is used only on an emergency basis and should not result in any negative impacts.

The project will further reduce air pollutants and air toxics by providing the CR&R natural gas truck fleet with a supply of locally produced renewable natural gas. CR&R plans to add 100 CNG/LNG vehicles to its fleet over the next five years. CR&R also plans to install two new alternative fueling stations to support its fleet and will use the biomethane produced from this project at the stations.

The reduction in tailpipe diesel emissions from fleet trucks is expected to bring a net benefit to the region's air quality. The renewable natural gas used in this project will displace the equivalent of 865,000 gallons of diesel fuel, enough to power between 60 and 80 heavy-duty trash recycling trucks and reduce an estimated 57,740 tons of carbon dioxide between 2013 and 2020.

This project is not expected to result in adverse health effects to sensitive populations at the project sites or in the city where the station will be located.

Furthermore, this project is expected to bring economic benefits to the Perris community. This project will create approximately 100 construction jobs and eight permanent facility operation jobs in Perris, which currently has an unemployment rate of more than 20 percent. These jobs will include plant operators, truck mechanics, truck drivers, and plumbers, electricians, and pipe fitters for the facility construction.

Outreach Efforts

CR&R has reached a mitigated negative declaration CEQA agreement with the City of Perris/Riverside County to increase the MSW tonnage from 1,800 tons per day to 3,000 tons per day.

The SCAQMD will determine if it needs to conduct a new source review at the existing facility that already has the appropriate permits, as modifications to the facility may increase emissions. The air district will also adhere to federal and state regulations to notice residents within 1,000 feet of the site if the project will result in an increase in emissions above the threshold. The air district will post notices to the Air Resources Board and Environmental Protection Agency websites and in local newspapers if the project is using emission offsets or emission reduction credits.

Aggregate Location Analysis and Community Impacts

Energy Commission staff used data gathered from the recipient via the project proposal and a follow-up survey. The information presented in this table reflects total expected emissions that could have a potential impact on surrounding communities based on anticipated fuel production and feedstock blends. These emission numbers include emissions from fuel production, plant operation, and fuel/feedstock transport.

	NO ^x	PM	PM	NO	SO2	Lead	H2S	Formaldehyde	DPM	Benzene	Acetaldehyde	1,3 Butadiene
		(2.5)	(10)	2								
Project												
CR&R	0	<mark>0</mark>	<mark>0</mark>	<mark>0</mark>	<mark>0</mark>	0	<mark>0</mark>	0	0	0	0	<mark>0</mark>

Table 2: Emission Increases Associated With Plant Operation, Fuel Production, and Feedstock/Fuel Transport

Source: Energy Commission staff

The following table indicates that two or more environmental justice indicators¹ exist in Perris, California. Based on the above assessment and CEQA analysis, and considered with the other projects funded under this solicitation, Perris is not disproportionately affected by this project.

Some of the notable benefits from the project include improved air quality from more efficient processing of municipal solid waste and conversion of fleets to use cleaner alternative fuels. Additionally, the project explores the use of efficient processing of waste products to produce renewable natural gas. The project is anticipated to improve the environment and result in socioeconomic benefits by generating jobs and revenue for local communities that would otherwise not be available.

Table 3:	Environmental	Justice	Indicators

City	Minority	Poverty Level	Unemployment Rate	Age
Perris	Х	Х	Х	

Source: Energy Commission staff

¹ For this analysis, staff used the following criteria: unemployment rate exceeds the state unemployment rate (12.6 percent), statewide percentage of persons below the poverty level (13.3 percent), a minority subset represents more than 30 percent of the city population, and population under 5 years or over 65 years is 20 percent higher than the state average (7.4 percent <5 years, and 11.2 percent >65 years).

The last table in this addendum provides city-level data for the city project location to give additional insight on the community demographics where the project will be located.

City	Perris
Below poverty level	20.4
Ethnicity	
Black	15.9
American Indian or Alaskan Native	1.5
Asian or Pacific Islander	3.0
Hispanic	56.1
White	41.2
Age	
< 5 years	10.8
> 65 years	6.2
Unemployment rate	22.2

Table 4: Demographic Data for Biofuel Facilities(Percentage of total population)

Source: Unemployment Information, EDD Labor Market Information Division; Age/ethnicity demographics, U.S. Census
Thursday, July 28, 2016

Brian Mabry 444 S 5th Street Louisville KY 40202

Good afternoon, Mr. Mabry.

I am a West End resident in Louisville and I am opposed to the proposed methane biodigestor plant being placed in ANY neighborhood in Louisville's West End.

It poses a serious health risk to our communities, and <u>no amount</u> of monetary or educational compensation is a "trade-off" for the potential risk of health and well-being of West End residents.

Please let the people of the Planning Commision know that I voiced my concern to you.

Sincerely,

Shirley Burke 730 S. 36th Street Louisville, KY 40211 mobile: (502) 609-4801

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AUG 0 12016 PLAMMENT & DESIGN SERVICES

LOUISVILLE METRO COUNCIL

MARY C. WOOLRIDGE DISTRICT 3 COUNCILWOMAN mary.woolridge@louisvilleky.gov

DONNA B. SANDERS LEGISLATIVE ASSISTANT donna.sanders@louisvilleky.gov

August 1, 2016

Chairman Donnie Blake 444 South 5th Street Louisville, KY 40202

Dear Chairman Blake:

Many have commented publically on their disdain for the proposed bio digesters and their reasoning's. Below are my concerns and recommendations for your action on this most important community issue.

Chiefly my concern is that the Planning and Design staff could not find any other metro area of similar size, which allows the placement of methane plants within its residential development code. The lack of regulatory plans within similar or larger urban areas should give us pause in deciding to allow these in our own community. Odors, delivery trucks and the potential for an explosion has made other communities hesitate in adopting these methane plants with their community; why should we lead the effort in the United States in placement of these plants in our own backyard.

I would argue that the quarter-mile proximity from neighborhoods, schools, churches, hospital and nursing homes is too short. At the July 26, 2016, public meeting held at the East Government Center, Emily Liu advised that the Louisville Metro Emergency Management Agency/Metro Safe had indicated that a half-mile is the minimum distance for evacuation for a methane gas leak. In addition, Planning and Design staff have stated that they have not studied what the size of a blast radius would be if one of the digester tanks were to explode. Therefore, at worst, I believe the Planning Commission should heed the advice of Metro Safe and propose a rule in which a half-mile radius be the minimum distance forwarded onto the Metro Council.

Another point that needs emphasize is that under the current Land Development Code only the M-3 zoning category allows for the production of methane gas although the recommendations would expand this into M-1, M-3, C-M and EZ-1. Property zoning classifications change all of the time; the Metro Council just recently adopted nine such zoning changes this past Thursday.

Permitting methane plants within all five proposed zoning classifications will not only expand the areas in which these facilities can be built, but will also make us look over our shoulder when reviewing proposed zoning changes in the future. Five zoning categories covers too many parcels eligible for consideration in the future and with all of the angst associated with these proposed methane facilities, why would we expand eligibility into four more zoning categories?

Also lacking in the proposed rules is a comprehensive permitting process for these bio digesters. I agree that we need to tackle new innovative ways to combat our solid waste usage, but planning and permitting where these facilities should be located in order to protect our citizen's safety and health should be priority number one. The Planning Commission should set rigid safety and health standards with any recommendations forwarded to the Metro Council.

Some alternates for your consideration include not only reducing the number of zoning categories eligible and increasing the distance between the aforementioned neighborhoods but also consideration of banning these methane plants within the Land Development Code. Many in the General Assembly worked this past year to address this issue; why not give them more time to deliberate this issue next spring. Many have also asked why the proposed regulations do not delineate between wet or dry materials being digested. Commonsense would tell us that scraps off hogs and corn stalks would emit different odors in a bio digesting process. I urge you to consider the differences in waste being used within your proposed regulations.

I urge you to study the issues I have poised and recommend regulations that will ensure our safety and health before profits and business.

Sincerely,

Mary Hostile

Mary C. Woolridge Metro Council District 3



AUG 0 1 2016 PLAINING & DESIGN SERVICES Dear Mr. Mabry,

I am writing to provide feedback on the proposed regulations for the methane "biodigesters" in Louisville. I do not believe that methane biodigesters should be placed within the boundaries of Louisville Metro. **There should be a complete ban on methane biodigesters in our urban areas**. Our regulations should be consistent with regs in other communities and in other countries, i.e., none are cited within urban areas, rather they are put in rural areas next to the sources that will be digested, i.e., manure and other "by-products" of farming operations. These regulations seem to ignore the fact that many of the properties that now exist in West Louisville are at risk of being destroyed due to generations of underinvestment, and therefore, be open interpreted as being appropriate for biodigester citing. I also do not trust language such as "bona fide" agriculture. This vague language raises questions about whether land owned by Louisville Grows for urban farming or the West Louisville FoodPort would be eligible for citing, or whether someone can plant a few rows of crops and then suddenly become a "bona fide" agricultural operation.

I believe that these regulations are yet another example of institutional racism and classism that is unfortunately prevalent in Metro Louisville. These regulations target areas where the majority of residents are either people of color, or of limited resources, and therefore, unfortunately, of little perceived power. Metro needs to finally do right by these communities, and refuse to allow Nature's Methane and other such companies from dividing our already fractured community and forcing them to spend their limited resources on fighting these predators.

Thank you for your time.

Karyn Moskowitz 1510 E. Breckinridge Street Louisville, KY 40204