



# Lydia Chandra

## Environmental Engineer II, New Source Review

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### STRENGTHS



#### Technical Review

Checked calculations, process details, and controls closely; reviewers relied on clear findings when applications raised difficult questions.



#### Modeling Support

Prepared source parameters and checked model inputs for ambient analyses; lead modelers gained cleaner data and fewer follow up questions.



#### Regulatory Research

Compared EPA guidance with state rules during permit reviews; senior engineers used concise research notes for defensible decisions.



#### Stakeholder Coordination

Clarified technical gaps with applicants and consultants, often turning tense exchanges into documented next steps and steady review progress.



#### Technical Writing

Turned engineering findings into memoranda, permit conditions, and summaries; management received practical language for informed review.

### SKILLS

New Source Review

Air quality permitting

Ambient air analysis

NAAQS compliance

Air dispersion modeling

Emissions calculations

### SUMMARY

Early career environmental engineer with three years of progressive experience reviewing air quality permit applications for industrial construction and modification projects. Work covers process descriptions, **emissions calculations**, **emission units**, **release points**, **pollution controls**, modeling inputs, technical reports, and electronic records. Supports ambient air impact analyses and NAAQS evaluations by preparing source data, checking model inputs, reviewing outputs, and coordinating questions with lead modelers. Researches EPA guidance, state rules, environmental requirements, and evolving control technologies, then translates findings into technical memoranda, permit summaries, proposed conditions, and management materials. Coordinates with applicants, consultants, regulatory specialists, and cross functional teams on sensitive technical questions and competing interpretations. Clear technical writing, organized project execution, and mentoring experience support accurate, defensible reviews.

### EXPERIENCE

#### Environmental Engineer II, Air Quality Permitting

Front Range Air Permitting Group 📅 January 2025 - Present 📍 Boulder, CO

Lead mid level review of New Source Review applications for industrial construction and modification projects. Support ambient air impact analyses, technical documentation, regulatory research, stakeholder coordination, electronic records, and staff mentoring across concurrent reviews.

- Reviewed **New Source Review** applications, **emissions calculations**, controls, and engineering documentation for industrial projects.
- Prepared source parameters and checked modeling inputs supporting lead modelers evaluating **NAAQS** compliance.
- Drafted **technical analyses**, permit conditions, application summaries, and management materials for regulatory review.
- Researched **emission control technologies** and regulatory guidance, documenting technical bases for permit approaches.
- Coordinated applicant questions, **technical comments**, schedules, and electronic records across concurrent application reviews.
- Mentored newer staff on document review, emissions calculations, record organization, and technical writing.

#### Environmental Engineer I, Stationary Source Review

Rocky Mountain Environmental Review 📅 October 2023 - December 2024 📍 Denver, CO Collaborative

Supported stationary source permit reviews through engineering analysis, emissions and equipment checks, dispersion modeling preparation, regulatory research, applicant coordination, and defensible electronic documentation for senior review.

- Evaluated permit components, equipment information, **emission units**, **release points**, and proposed controls against requirements.
- Prepared engineering memoranda and data summaries documenting findings, open questions, and recommended senior review.
- Compiled source data and checked model ready parameters against **plans**, **specifications**, and emissions information.
- Researched EPA guidance and state **rules**, supporting consistent answers to technical permitting questions.
- Joined applicant and consultant discussions, clarified submittals, documented responses, and kept reviews progressing.
- Maintained electronic records for applications, calculations, correspondence, and review notes supporting transparent documentation.

Industrial emission units

Pollution controls Release points

Technical document review

Environmental regulations

EPA requirements

Permit conditions

Stakeholder response

Electronic records

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Environmental Engineer II, Air Quality Permitting at Front Range Air Permitting Group (1.7 Years)

● Environmental Engineer I, Stationary Source Review at Rocky Mountain Environmental Review Collaborative (1.2 Years)

● Air Quality Engineering Research Assistant, Emissions Studies at University Research Lab (1 Years)

## Air Quality Engineering Research Assistant, Emissions Studies

University Research Lab 📅 September 2022 - September 2023 📍 Fort Collins, CO

Supported supervised research on industrial emission sources and controls through emissions inventories, source characterization, dispersion modeling exercises, technical literature review, engineering calculations, and clear research documentation.

- Supported research on industrial emission sources and controls, building knowledge of regulatory concepts.
- Quality checked dispersion modeling datasets against source parameters and documented research assumptions.
- Reviewed literature on particulate and gaseous controls, summarizing applicability for engineering studies.
- Applied engineering calculations to emissions scenarios, documenting units, assumptions, equations, and results.
- Created technical figures and presentations explaining air quality methods and findings to research audiences.
- Maintained organized research records and contributed to data quality and modeling interpretation reviews.

## PROJECTS

### Industrial Source Modeling Review 📅 2024

Prepared a supervised review framework for industrial source parameters, emissions data, release points, and dispersion modeling inputs, supporting consistent technical checks.

### Emission Control Technology Study 📅 2023

Compared particulate and gaseous emission control technologies through literature research, engineering calculations, and concise summaries of performance and applicability.

## LEADERSHIP & AWARDS

- Environmental Engineering Senior Design Recognition, Colorado State University, 2023
- Outstanding Technical Research Presentation, University Research Lab, 2023

## EDUCATION

### Bachelor of Science in Environmental Engineering

Colorado State University 🎓 GPA: 3.8 📅 2023 📍 Fort Collins, CO

**Coursework:** Air Quality Engineering, Environmental Regulations, Fluid Mechanics, Engineering Calculations

## CERTIFICATIONS

- Engineer in Training, Colorado 📅 2023
- EPA Air Pollution Training Institute, Air Quality Permitting Fundamentals 📅 2024

## TECHNICAL SKILLS

- **Air Quality Programs:** New Source Review, NAAQS, WAAQS
- **Regulatory Authorities:** EPA requirements, state rules, NPS requirements
- **Modeling Methods:** Air dispersion modeling, ambient impact analysis, source modeling
- **Emissions Analysis:** Emissions calculations, emissions inventories, source characterization
- **Industrial Processes:** Emission units, process descriptions, release points
- **Pollution Controls:** Particulate controls, gaseous controls, control technology research
- **Permit Documents:** Technical reports, permit summaries, proposed permit conditions
- **Engineering Review:** Plans, specifications, calculations, technical merit
- **Technical Research:** Regulatory research, scientific studies, agency guidance
- **Records Management:** Electronic application records, project documentation, correspondence
- **Stakeholder Tools:** Applicant coordination, consultant coordination, public meetings
- **Communication Formats:** Technical memoranda, data summaries, management materials

## PROFESSIONAL AFFILIATIONS

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- Air Quality Professionals Emerging Engineers Group, Member, 2024 - Present
- Air and Waste Management Association, Student Member, 2023 - Present

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST