



SAFE AND CONNECTED



NDOT STORMWATER PROGRAM

*National Stormwater Roundtable
February 20-23, 2018*

**David Gaskin, P.E.
Deputy Director**



*"Promote stormwater stewardship as an essential
element of all NDOT operations."*







Problem

- No resources
 - No commitment
 - No authority
 - No desire
 - No program



Problem

- EPA audit 2011
- Lack of program implementation
 - Overall inadequacy
- EPA threatened major enforcement
 - NDOT unable to act



Approach/Solution



Governor:

“Failure is not an option.”

- Governor’s Office, Department of Conservation and Natural Resources, Nevada Division of Environmental Protection, Nevada Department of Transportation



Approach/Solution

2015 Legislature

- Senate Bill
 - Permitting and enforcement authority
 - New Deputy Director position
 - Lots of reporting, oversight committee
- Major budget amendment
 - \$13mm, 42 new positions
 - Equipment





Approach/Solution

Consent Decree with EPA

- Program elements to be developed
- Automated and integrated
- Training and outreach
- Stipulated penalties

State's commitment allowed EPA flexibility

- Challenging but possible
- Compliant and sustainable program





Approach/Solution

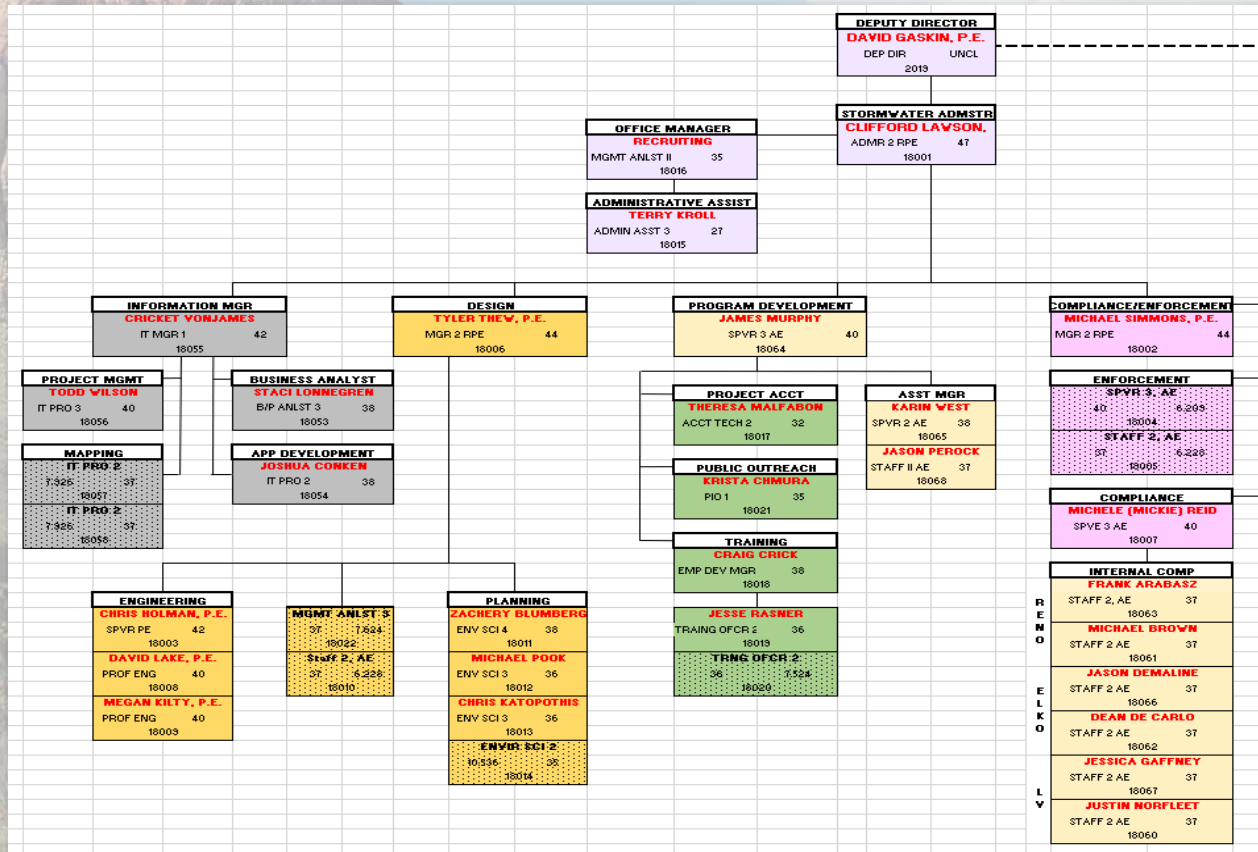
Consent Decree Requirements





Implementation

Balance of NDEP and NDOT Personnel





Implementation

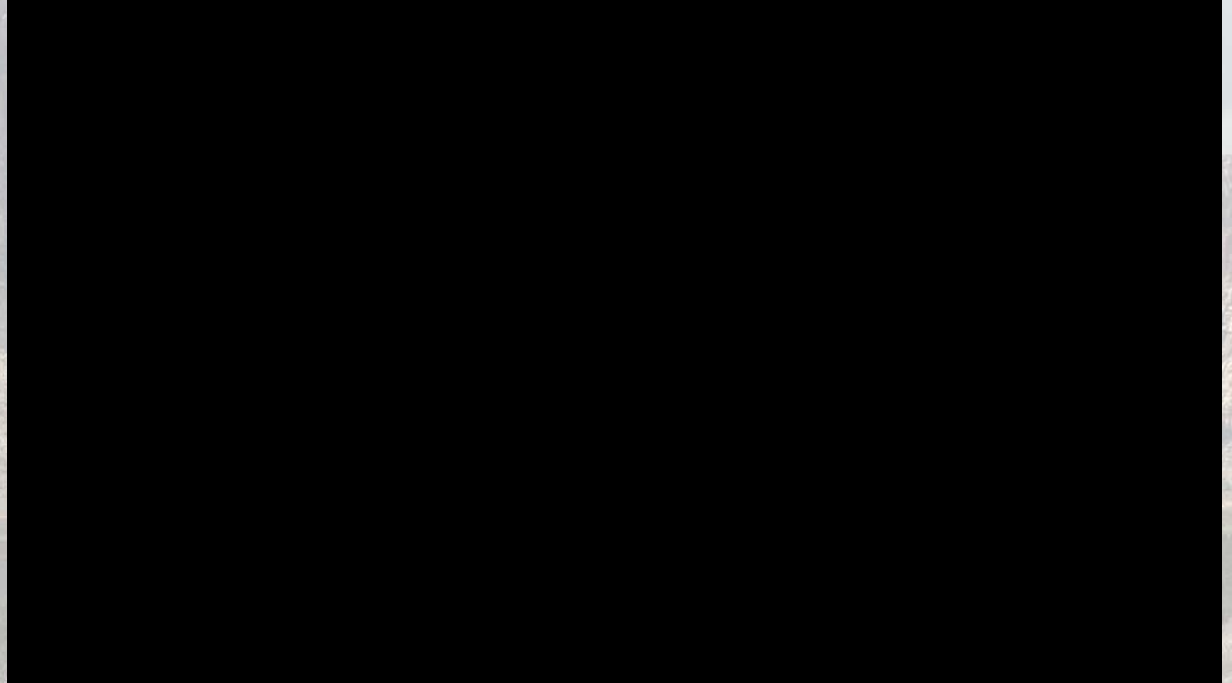
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|------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| DEPUTY DIRECTOR TRACY LARKIN-THOMASON, P.E. DEP DIR UNCL | | |
| DISTRICT 1 LAS VEGAS | DISTRICT 2 RENO | DISTRICT 3 ELKO |
| FIELD SUPPORT MARY MARTINI, P.E. ADMR 2 RPE 47 101003 | FIELD SUPPORT THOR DYSON, P.E. ADMR 2 RPE 47 201001 | FIELD SUPPORT BOYD RATLIFF ADMR 2 RPE 47 301003 |
| COMPLIANCE SPVR 3, AE 5.203 40 18023 | COMPLIANCE ANTHONY ANGELOPOULOS SUPV 3 AE 40 18037 | COMPLIANCE SPVR 3, AE 5.203 40 18043 |
| ALFRED RAMOS STAFF 2, AE 37 18024 | TYLER WOOD STAFF 2 AE 37 18036 | CYNTHIA NEISESS STAFF 2 AE 37 18046 |
| MARIE UNDERWOOD STAFF 2, AE 37 18025 | STAFF 2 AE 5.228 37 18035 | MEBRANTU GOBENA STAFF 2 AE 37 18047 |
| STORMWATER MAINT KEVIN KILLIAN HWY MAINT MF 38 18026 | STORMWATER MAINT JOSEPH BOWERS HWY SPVR 1 33 18038 | STORMWATER MAINT DENNIS PRICE HWY SPVR 2 35 18048 |
| NEIL NELSON HWY SPVR 2 35 18027 | RECRUITING HMW 4 31 18039 | SHAWN GREGORY HWY SPVR 1 33 18043 |
| GLEN JEFFREY HWY SPVR 1 33 18032 | DAVID MORRIS HMW 3 23 18040 | DARRELL LEWIS HMW 4 31 18050 |
| ALEX MILLER HMW 4 31 18033 | ALAN ARZIE HMW 3 23 18041 | MARTIN SALAS HMW 3 23 18051 |
| RECRUITING HMW 3 23 18034 | GEOFFREY MEADOWS HMW 3 23 18042 | MIRANDA MICHELI HMW 3 23 18052 |
| CHARLES SOLLENBERGER HWY SUVR 1 33 18028 | HMW 3 03.120 23 18043 | HMW 3 03.120 23 18044 |
| DAVE HUNNEL HMW 4 31 18029 | | |
| DAVID BURNS HMW 3 23 18030 | | |
| HMW 3 03.120 23 18031 | | |





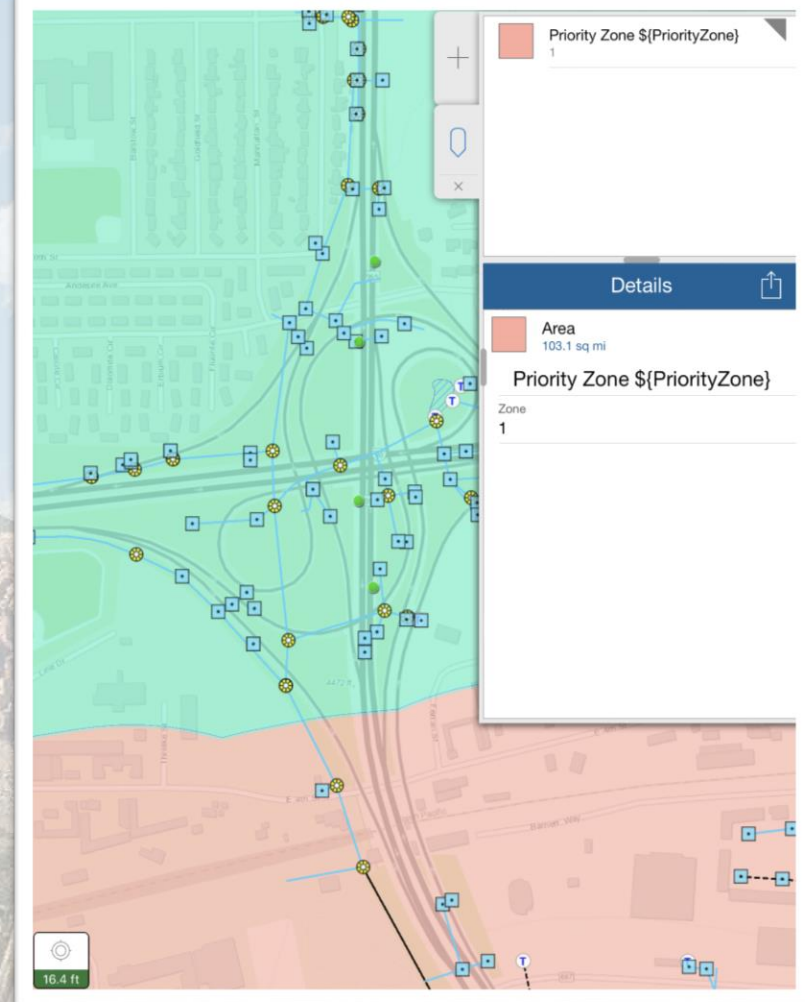
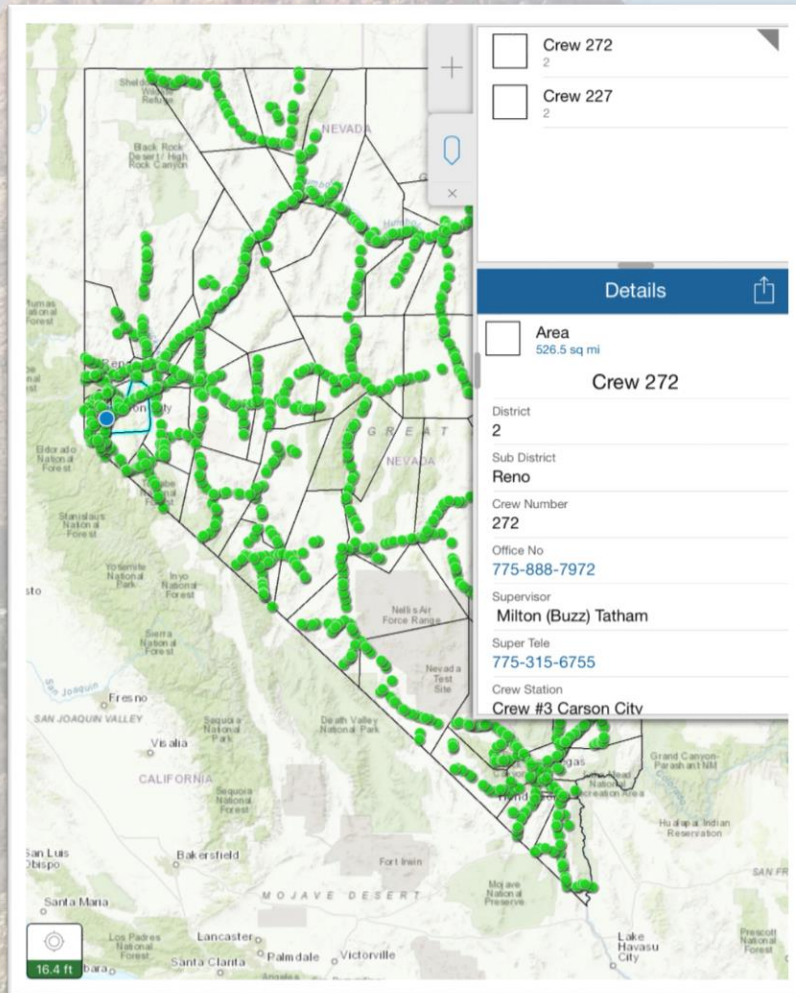
Implementation

- GIS mapping of assets
- Program development
- Roles and responsibilities
- Compliance and enforcement
- Training overhaul
- Strong outreach - internal and external





Crew Boundary Layer to Stormwater Assets by Work Location



**Priority Zone Layer
Shows Assets in Specific
Identified Areas**



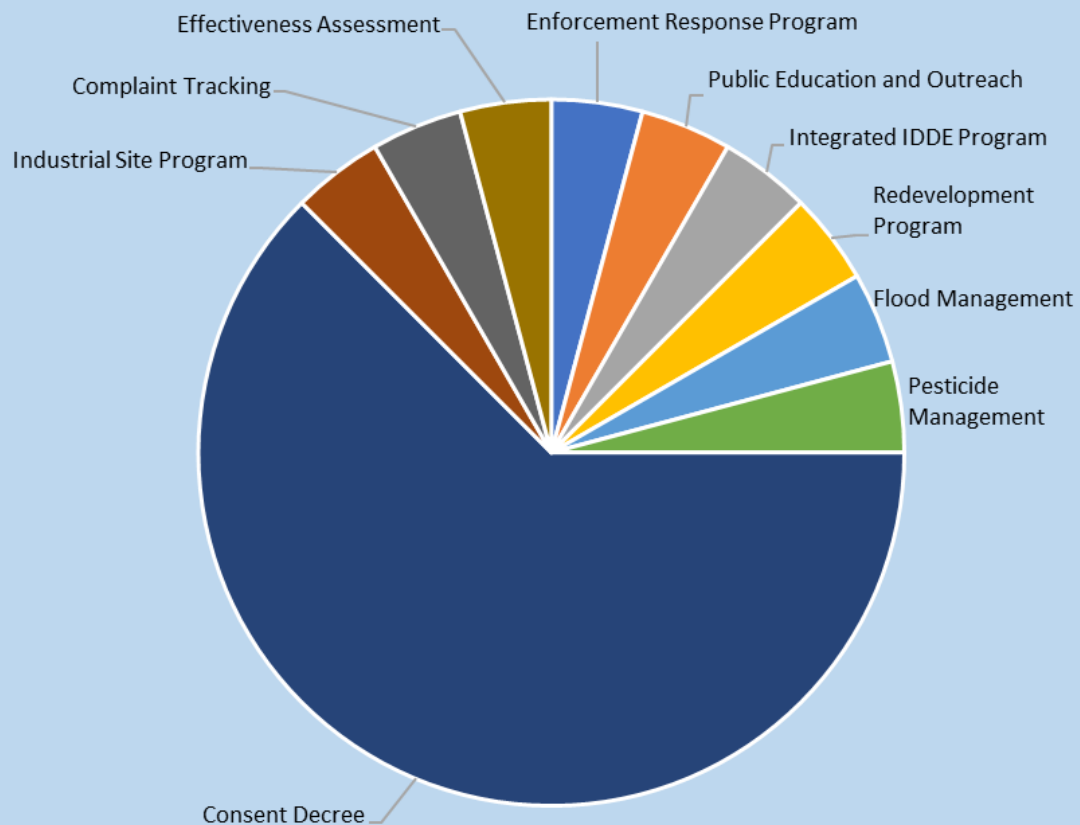
Implementation

- Not a stand-alone program
- Interface and integrate with other divisions
- Field offices
 - Maintenance
 - Construction
 - Inspections



Where Are We Now?

NDOT Stormwater Permit



- Major submittals completed
- Transition from CD to MS4 permit
- Permit in EPA review and public comment process



Challenges

- Culture change
 - Big old department
 - Crusty old employees
 - More silos than Kansas
- Resources, priorities
- Regulatee vs Regulator
- District structure
- Turnover





Lessons Learned

- Supportive governor, directors
- Constructive EPA
 - Win-win, not unfunded mandates
 - Value added
 - More than just asphalt
 - Integrated and automated
 - Hire good people
 - Right attitude, right approach



Conclusion

Don't try this at home, but it CAN be done!

If done right, a good stormwater program can be a benefit to a DOT and the state.





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